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#### ABSTRACT

This annotated bibliography identifies the English language resources endorsed by Alberta, Canada and all Western Canadian Protocol (WCP) jurisdictions implementing The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12. The WCP resources in this bibliography were selected through a collaborative review process based on their high level of fidelity with the rational, philosophical, mathematical processes and outcome of The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12. (ASK)







# Grade 10 to Grade 12 Mathematics Resources

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# Alberta Grade 10 to Grade 12 Mathematics Resources

Annotated Bibliography

June 1998

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# INTRODUCTION

# **Foreword**

This annotated bibliography identifies the English language resources endorsed by all Western Canadian Protocol (WCP) jurisdictions implementing *The Common Curriculum* Framework for K-12 Mathematics Grade 10 to Grade 12.

The Western Canadian Protocol for Collaboration in Basic Education Kindergarten to Grade 12 was signed in December 1993 by the ministers of education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory, and the Northwest Territories. *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9, was released in June 1995 and Grade 10 to Grade 12 was released in June 1996.

Alberta implemented the general and specific outcomes of the Common Curriculum Framework for K-9 Mathematics for Grade 7 and Grade 9 in September 1996 and for Kindergarten to Grade 6 and Grade 8 in September 1997. Pure Mathematics 10 is to be implemented in September 1998, followed by Pure Mathematics 20 in September 1999 and Pure Mathematics 30 in September 2000. Applied Mathematics 10 can be optionally implemented in September 1998, and the other courses in the sequence can be optionally implemented in the following years. Provincial implementation for Applied Mathematics 10 is to occur in September 1999, followed by Applied Mathematics 20 in September 2000 and Applied Mathematics 30 in September 2001.

The WCP resources in this annotated bibliography were selected, through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of *The Common Curriculum*Framework for K-12 Mathematics Grade 10 to Grade 12. These resources have undergone an intensive review and were found to be the most suitable of those submitted. All of the WCP resources have been authorized for use in Alberta and include the WCP logo.

All resources previously authorized for Grade 10 to Grade 12 are included in this bibliography in the Authorized Resources Under Review section. Resources for Mathematics 14, 24 and 31 will be retained; they are also included in the above mentioned section.

A complete listing of all authorized learning and teaching resources is also available through the Alberta Education web site at <a href="http://ednet.edc.gov.ab.ca">http://ednet.edc.gov.ab.ca</a> under Students and Learning, Learning and Teaching Resources.

# **Future Calls for Resources**

The first call for resources for Grade 10 to Grade 12 mathematics resulted in the approval of an initial set of resources to support the Common Curriculum Framework. Future calls for resources will be issued to complete the collection of resources for Grade 10 to Grade 12 mathematics.

The next call for mathematics resources for Grade 10 to Grade 12 should be issued later in 1998, and additional resources should be added to the WCP resource collection in the spring of 1999. This would result in new resources being authorized by Alberta Education in the spring of 1999 for Grade 10 to Grade 12 mathematics.



# Applied Mathematics Breadth Resources

The call for applied and pure mathematics Grade 10 to Grade 12 resources was issued on June 25, 1996. By the spring of 1997, there were concerns that there might not be any applied mathematics breadth resources developed and submitted for review by the February 2, 1998 submission deadline. Through correspondence with all relevant publishers, this assumption was confirmed. A "Request for Proposal" to develop applied mathematics breadth resources for grades 10, 11 and 12 was issued in the fall of 1997. The submissions received were evaluated and one company was chosen for the contract. Addison-Wesley Longman has entered into a contract with Alberta Education and the WCP jurisdictions to prepare an applied mathematics resource for each of grades 10, 11 and 12.

The timelines for developing the materials are as follows:

# Applied Mathematics 10

- 1/3 of the manuscript June 1, 1998
- Entire preprint document without colour August 15, 1998
- Final bound resource June 1, 1999

# Applied Mathematics 20

- Entire preprint document without colour June 1, 1999
- Final bound resource June 1, 2000

# Applied Mathematics 30

- Entire preprint document without colour June 1, 1999
- Final bound resource June 1, 2001

# Pure Mathematics Breadth Resources

From this first call for mathematics resources for Grade 10 to Grade 12, breadth resources

were identified for Pure Mathematics 10 and 20 only. It is anticipated that additional breadth resources for pure mathematics will be received as part of the subsequent calls for resources.

# Pure Mathematics 10

Two multicomponent series were approved as WCP mathematics resources for Pure Mathematics 10.

# Pure Mathematics 20

One breadth resource was approved as a WCP mathematics resource for Pure Mathematics 20.

# Pure Mathematics 30

No breadth resource was submitted for Pure Mathematics 30. It is anticipated that suitable submissions will be received as part of the next call for resources process.

# Organization

The resources in this bibliography are organized by course, authorization status and then alphabetically by title. Resources that are suitable for more than one course appear for each of the applicable courses, thus providing a comprehensive listing of materials for each course.

Annotations with resource descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs, this information is included in the *Audience* section of the annotation.

A listing of currently authorized high school mathematics resources is included at the end of the bibliography. The proposed status of these resources is indicated.

An alphabetical title listing at the end of the bibliography indicates the designated course(s) of each resource.



Note: In the annotations, Common Curriculum Framework is used to refer to the document, The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12.

# **Pricing Information**

The prices appearing in this document are estimated prices for schools and should be used as a guideline for purchase planning. The estimated prices for WCP resources are applicable to all six participating jurisdictions (four provinces and two territories). The final selling prices for these resources in jurisdictions with book bureaus will be dependent upon provincial negotiations, cost recovery requirements, and the inclusion of shipping and handling charges. For confirmation of prices, please contact the Learning Resources Distributing Centre directly at 403–427–2767, dial 310-0000 to be connected toll free; fax 403-422-9750; or visit their web site at <a href="http://www.lrdc.edc.gov.ab.ca/">.</a>.

#### Authorization Status

All resources included in this annotated bibliography have been authorized as either basic, support or authorized teaching resources.

# **WCP** Resource Information

All WCP learning and teaching resources included in this annotated bibliography have been designated as WCP key resources for *The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12* and include a WCP icon. The WCP resources include information on the Mathematical Processes, Strand/Substrand curriculum coverage and the following categorizations:

- O Breadth identifies learning resources with the highest possible level of fidelity with the general and specific outcomes published for a course.
- O Depth identifies learning resources that address a limited range of general and specific outcomes for a cluster or set of clusters, but provide an especially effective learning experience for students.
- O Breadth and Depth identifies comprehensive learning resources that provide both the breadth and depth dimensions for a particular course.
- O Teacher identifies resources that assist teachers with the implementation of the Common Curriculum Framework and any courses derived from it.

# Criteria for the Selection of Learning and Teaching Resources

Resources in this annotated bibliography were selected according to the following criteria:

- O Content and Curriculum Fit includes how effectively a learning or teaching resource supports any given learning outcome within a strand or substrand and meets student needs.
- O Instructional Design includes the organization and presentation techniques; the methods used to introduce, develop and summarize concepts; the vocabulary level of a resource; and the suitability to student learning styles or to special audiences.
- O Technical Design includes binding, type of print, quality of illustrations, durability and format. For multimedia resources, such factors as pacing, quality of pictures/sound,



user friendliness, use of special features for emphasis, and interactivity are considered.

 Social Considerations/Tolerance and Understanding includes screening for tolerance and understanding and social concerns.

When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students, and to the perspectives of the local community. Information on a resource may be obtained from the descriptive information in this list, from the supplier, from published reviews or colleagues, and from an examination of the resource.

# Acknowledgments

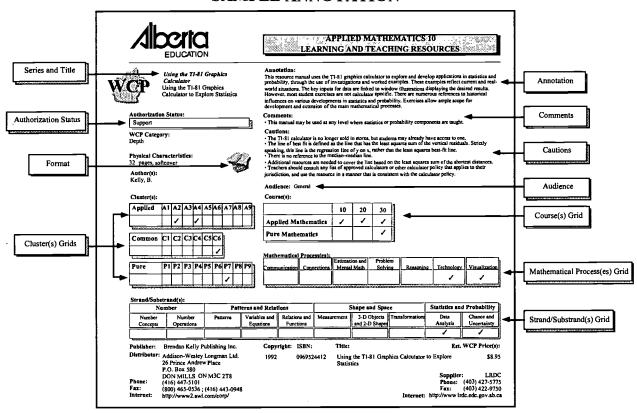
Alberta Education would like to thank those involved in the review and selection process to identify the best student and teacher resources for Grade 10 to Grade 12 mathematics. In 1998, 25 teachers were selected by the participating WCP jurisdictions to review over 200 items received in response to the invitation to publishers, producers and distributors for resource submissions.

Appreciation is also extended to all the school systems in the WCP jurisdictions that supported teachers participating in the review process.

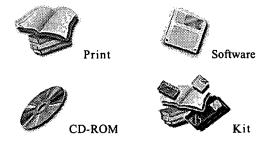
Finally, appreciation is extended to the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for *The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12.* 



# SAMPLE ANNOTATION



- O Series and Title: series names are indicated by italics.
- O Authorization Status: indicates the status of the resource as basic, support or authorized teaching.
- O Format: is represented by an icon, such as:



- O Cluster(s) Grids: identifies the cluster(s) of outcomes that are addressed in the resource.
- O Annotation: provides an overview of the resource.
- Comments: provide additional information about the resource.

- Cautions: alert teachers to potentially sensitive issues/community concerns, or concerns about curriculum fit.
- O Audience:
  - General: the majority of students
  - LD: students who have difficulty in processing and understanding spoken, written or visual information
  - ESL: students who are learning English as a second language
- O Course(s) Grid: identifies the course(s) for which the resource is most suitable.
- O Mathematical Process(es) Grid: indicates those processes students will use when working through the activities provided in the resource.
- Strand/Substrand(s) Grid: allows teachers to see readily the fit between the Common Curriculum Framework strands/substrands and the outcomes covered in the resource.









Exploring Functions with the TI-82 Graphics Calculator

#### Annotation:

This resource contains exercises and investigations that are suitable for a wide range of student abilities. It acts as a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The resource uses keying sequences that are specific to the TI-82 model of calculators.
- · Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### **Authorization Status:**

Support

# WCP Category:

Depth

#### Physical Characteristics:

64 pages, softcover





#### Cluster(s):

| Applied | A1 | A2 | A3  | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9  |
|---------|----|----|-----|----|----|----|------------|----|-----|
|         |    |    |     |    |    |    |            |    |     |
|         |    |    | l I |    |    | i  |            |    | l i |
|         |    |    |     | L  |    |    |            | L  |     |
|         |    |    |     |    |    |    |            |    |     |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    | 1  |            |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    |    |    | 1  |            | 1  |    |

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| /             | 1           | /                             | 1                  | 1         | 1          | /             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | lations                    |             | Shape and Spa                 | Statistics ar   | d Probability_   |                           |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | •                    |          | . 1                        | 1                          |             |                               |                 |                  |                           |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

P.O. Box 580

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Phone:

(416) 447-5101

Fax: Internet: (800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

1993

Copyright: ISBN: 1895997003

Exploring Functions with the TI-82 Graphics

Calculator

\$14.60

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750





Exploring Statistics with the TI-82 **Graphics Calculator** 

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

64 pages, softcover



Kelly, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | <b>A5</b> | <b>A</b> 6 | <b>A</b> 7 | A8 | А9 |
|---------|----|----|----|----|-----------|------------|------------|----|----|
|         |    | 1  |    | 1  |           |            |            |    |    |

| Common   | C1 | C2 | <b>C</b> 3 | C4 | C5 | <b>C</b> 6 |
|--|----|----|------------|----|----|------------|
| Harrist Constitution of the Constitution of th |    |    | 1          |    |    | 1          |

| Pure | P1 | P2 | Р3 | P4 | P5 | <b>P</b> 6 | <b>P</b> 7 | Р8 | P9 |
|------|----|----|----|----|----|------------|------------|----|----|
|      |    | /  |    |    |    |            | 1          |    |    |

#### Annotation:

This resource manual uses the TI-82 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line. The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line. Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

1994

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| ✓             | 1 | /                             | ✓                  | 1         | 1          | 1             |

Strand/Substrand(s):

| Nu                 | ımber                | Pa       | itterns and Re             | elations                   |             | Shape and Spa                 | ce              | Statistics and Prohability |                        |  |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and Uncertainty |  |
|                    |                      |          |                            |                            |             |                               |                 | 1                          | 1                      |  |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

P.O. Box 580

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Phone: (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: http://www2.awl.com/corp/

Copyright: 189599702X

Exploring Statistics with the TI-82 Graphics

Est. WCP Price(s): \$14.60

Supplier: LRDC

Phone: (403) 427-5775 Fax: (403) 422-9750





#### Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### **Physical Characteristics:**

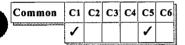
 Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette



• Windows Version: Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

#### Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         | 1  |    | 1  |    |    |    |    |    |    |



| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    |    | 1  |    |    |    |    |

#### Annotation:

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 20, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 20. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

#### Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.

#### **System Requirements:**

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6.0 or higher. Recommended is a system with 4 MB RAM and System 7.0 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive.
- Windows 95: 486/50 MHz, 8MB RAM, hard drive. The use of a Pentium processor and 16 MB RAM is recommended.

#### Cautions:

• The program defaults to inches, but it can be set to centimetres.

Audience: General

# Course(s):

1995

1995

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               | <b>✓</b>           | 1         | 1          | ✓             |

#### Strand/Substrand(s):

| Nu                 | ımber                | Pa       | tterns and Re           | lations                    |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|----------------------|----------|-------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
| •                  |                      |          | •                       |                            | 1           | 1                             | 1                          |                  |                           |

Publisher: Spectrum Educational Supplies Ltd.

Distributor: Spectrum Educational Supplies Ltd.

125 Mary Street

AURORA ON L4G 1G3

Phone: (905) 841-0600 Fax: (905) 727-6265

Internet: http://www.spectrumed.com/

Copyright: Component Titles:

• The Geometer's Sketchpad (Macintosh Version

Est. WCP Price(s): \$274.95

3)

• The Geometer's Sketchpad (Windows Version 3.03)

\$274.95

**Supplier:** LRDC **Phone:** (403) 427-5775

Fax: (403) 427-57/5





Geometry Blaster (Windows / Macintosh CD-ROM Version)

#### **Authorization Status:**

Support

WCP Category:

Depth

**Physical Characteristics:** 

One CD-ROM



Cluster(s):

| Applied  | A1 | A2 | <b>A</b> 3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|----------|----|----|------------|----|----|----|------------|----|----|
| <u> </u> |    |    |            |    |    |    |            |    |    |

| Common   | C1 | C2 | <b>C</b> 3 | C4 | C5 | <b>C</b> 6 |
|--|----|----|------------|----|----|------------|
| The state of the s | 1  |    | 1          |    | /  |            |

| Pure | Pi | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    | 1  |    | 1  |    |    |    |    |

#### Annotation:

This CD-ROM package includes lessons, activities and games to teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate or a mastery level. In each of the individual lessons there are three sections: teach, practise and apply. The resource is primarily designed for individual student use — drill, practice, recreation and enrichment. The ten main topics explored are: points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3-D, coordinate geometry, transformational geometry, and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

#### Comments:

- The resource is most useful for Grade 10.
- The resource has multiple levels, a good glossary and tutorial lessons to support the games.

#### **System Requirements:**

- Macintosh: System 7.0 or higher, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended. · Windows 95: 486/50 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended.

#### Cautions:

- · There is minimal emphasis on real-life problem solving.
- The teacher has limited records with which to check student progress.

Audience: General

#### Course(s):

1996

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

# Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               | 1           | /                             | 1                  | 1         | 1          | <b>✓</b>      |

#### Strand/Suhstrand(s):

| Nu                 | mher                 | Patterns and Relations |                            |                            |             | Shape and Spa                 | ce              | Statistics and Prohability |                        |  |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns               | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and Uncertainty |  |
|                    | -<br>-               | ✓ .                    |                            |                            | 1           | 1                             | 1               | -                          | •                      |  |

Puhlisher: Davidson & Associates, Inc.

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P.O. Box 2961

19840 Pioneer Avenue

**TORRANCE CA 90503** 

Phone:

Fax: Internet:

(310) 793-0600, ext. 1291

(310) 793-0601 http://www.education.com/ Copyright: ISBN: 0784910634

Title:

Geometry Blaster (Windows / Macintosh

Est. WCP Price(s):

CD-ROM Version)

Supplier:

LRDC

\$79.95

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca

15





RADE (Radian Protractor and Teacher's Guide)

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### Physical Characteristics:

One Radian Protractor and Teacher's Guide, 20 pages, loose, all in a softcover folder



Author(s):

Gagnon-Messier, D.; Forget, R.

#### Cluster(s):

| Applied | A1       | A2 | <b>A3</b> | <b>A</b> 4 | A5 | <b>A</b> 6 | <b>A</b> 7 | A8 | A9  |
|---------|----------|----|-----------|------------|----|------------|------------|----|-----|
|         |          | -  |           |            |    |            |            |    |     |
|         |          | l  |           |            |    |            |            |    | i 1 |
|         | L        |    |           |            |    |            |            | L  |     |
|         | <u> </u> |    |           |            |    |            |            |    |     |

| Common | Cı | C2 | С3 | <b>C</b> 4 | C5 | <b>C</b> 6 |
|--------|----|----|----|------------|----|------------|
|        |    |    | 1  |            |    |            |

|   | Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|---|------|----|----|----|----|----|----|------------|----|----|
| ì |      |    |    |    |    |    |    |            | 1  |    |

#### Annotation:

The RADE is a circular protractor with scales in radians and decimals of a radian, p radians and fractions of p radians, as well as degrees. The accompanying teacher's guide explains the use of the protractor and provides overheads and question/answer worksheets for student use to reinforce concepts.

#### Comments:

- This resource is available in English and in French.
- The use of this resource is primarily limited to Pure Mathematics 30, outcomes P8-1 and P8-2, with a limited applicability to cluster C3 in Pure Mathematics 10 and Applied Mathematics 10.

#### Cautions:

- This resource is often marketed as part of a kit that contains other elements. The other components of the kit were either not approved as WCP resources for Grade 10 to Grade 12, or considered as more appropriate for Grade 7 to Grade 9.
- The approved resource consists only of the student protractor and the accompanying print guide.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | /  |    |    |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             | 1                             |                    | /         |            | ✓             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | tterns and Relations       |             | Shape and Space               |                 |                  | Shape and Space           |  | Statistics ar | d Prohability |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|--|---------------|---------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |  |               |               |
|                    | •                    |          |                            | 1                          | 1           | 1                             |                 | _                |                           |  |               |               |

Puhlisher: Société RADE Enr.

Distributor: Curriculum Innovations

Box 48, Site 3, RR4

STONY PLAIN AB T7Z 1X4

Phone: Fax:

(403) 963-5992 (403) 963-5981

RADE (Radian Protractor and Teacher's Guide)

Est. WCP Price(s):

\$10.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750





Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Functions

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

32 pages, softcover

Author(s): Kelly, B.

Cluster(s):



| Applied | A1 | A2 | <b>A3</b> | A4 | <b>A5</b> | <b>A</b> 6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|-----------|----|-----------|------------|------------|----|----|
|         |    |    |           | _  |           |            |            |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | <b>C</b> 6 |
|--------|----|----|------------|----|----|------------|
|        |    | 1  |            |    | 1  |            |

| Pure | P1 | P2 | Р3 | P4 | P5 | <b>P</b> 6 | P7 | P8 | P9 |
|------|----|----|----|----|----|------------|----|----|----|
|      |    |    |    | 1  |    | ✓          |    | 1  |    |

#### Annotation:

This resource manual includes exercises and investigations suitable for a wide range of student abilities. It provides a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The resource uses keying sequences that are specific to the TI-81 graphics calculator.
- · Modifications of the sequences for other Texas Instruments graphics calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | 1 | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
|               |   |                               |                    |           | 1          | 1             |

#### Strand/Substrand(s):

|                    | 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |                        |                            |                            |             |                               |                            |                  |                           |
|--------------------|---|------------------------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number             |   | Patterns and Relations |                            |                            |             | Shape and Spa                 | Statistics and Probability |                  |                           |
| Number<br>Concepts | Number<br>Operations                    | Patterns               | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |   |                        |                            | <b>/</b>                   |             |                               |                            |                  |                           |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone:

(416) 447-5101

Fax: Internet: (800) 465-0536; (416) 443-0948

http://www2.awl.com/corp/

Copyright: ISBN: 0969524404

Using the TI-81 Graphics Calculator to Explore

Est. WCP Price(s): \$8.95

Supplier: LRDC **Phone:** (403) 427-5775

Fax: (403) 422-9750





Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Statistics

#### **Authorization Status:**

Support

#### **WCP Category:**

Depth

#### **Physical Characteristics:**

32 pages, softcover



Kelly, B.



Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         |    | 1  |    | 1  |    |    |            |    |    |

| l | Cı | C2 | С3 | C4 | <b>C</b> 5 | C6 |
|---|----|----|----|----|------------|----|
|   |    |    |    |    |            | 1  |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
| b    |    |    |    |    |    |    | 1          |    |    |

#### Annotation:

This resource manual uses the TI-81 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

#### Comments:

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- There is no reference to the median-median line.
- · Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    |    |    | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | 1             |

#### Strand/Substrand(s):

| D11 D41            | (5)                  |                        |                         |                            |             |                               |                            |                  |                        |
|--------------------|----------------------|------------------------|-------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|------------------------|
| Nu                 | ımber                | Patterns and Relations |                         |                            |             | Shape and Spa                 | Statistics and Probability |                  |                        |
| Number<br>Concepts | Number<br>Operations | Patterns               | Variables and Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and Uncertainty |
|                    | -                    |                        |                         |                            |             |                               |                            | 1                | 1                      |

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Phone: (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: http://www2.awl.com/corp/ Copyright: ISBN: 0969524412

Title:

Using the TI-81 Graphics Calculator to Explore

Est. WCP Price(s): \$8.95

Statistics

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750







What If ...?: The Straight Line: Investigations with the TI-81 **Graphics Calculator** 

Support

WCP Category:

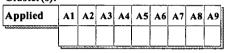
Depth

**Physical Characteristics:** 

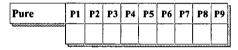
48 pages, softcover

Author(s): Alexander, B.





| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    | 1  |            |    | 1  |    |



#### Annotation:

This resource explores the straight line, using the T1-81 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes.

#### Comments:

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

#### Cautions:

- The T1-81 calculator is no longer sold in stores, but students may already have access to one.
- This "how to" resource is dependent upon the TI-81 calculator.
- The resource does not cover the line of best fit in any form.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓             |             | /                             | 1                  | 1         | 1          | 1             |

#### Strand/Substrand(s):

| Number             |                      | Patterns and Relations |                            |                         |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|----------------------|------------------------|----------------------------|-------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns               | Variables and<br>Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      |                        | -                          | ✓                       |             | _                             |                            |                  | _                         |

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Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

P.O. Box 580

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Phone:

(416) 447-5101

Fax: Internet: (800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

Copyright: ISBN: 0969698100 Title:

What If ...?: The Straight Line: Investigations

with the TI-81 Graphics Calculator

Est. WCP Price(s):

\$12.30

Supplier: LRDC

Phone: (403) 427-5775 Fax: (403) 422-9750





What If ...?: The Straight Line: Investigations with the TI-82 Graphics Calculator

| Authorization  | Status: |
|----------------|---------|
| AULIIVIILAUVII | Status. |

Support

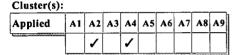
WCP Category:

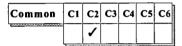
Depth

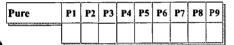
#### Physical Characteristics:

80 pages, softcover









#### Annotation:

This resource explores the straight line, using the TI-82 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes. This resource also introduces the concept of line of best fit.

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

#### Cautions:

- This "how to" resource is dependent upon the TI-82 calculator.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  |    |    |

#### Mathematical Process(es):

|               |             | Estimation and |         | Ding      | Technology | Visualization |
|---------------|-------------|----------------|---------|-----------|------------|---------------|
| Communication | Connections | Mental Math    | Solving | Reasoning | Technology | visualization |
|               |             | 1              | ✓       |           | /          |               |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | latious                    | Shape aud Space |                               |                 | Statistics and Probability |                           |  |
|--------------------|----------------------|----------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
| •                  |                      |          |                            | 1                          |                 | _                             |                 | ✓                          |                           |  |

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Distributor: Addison-Wesley Longman Ltd.

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Fax:

(800) 465-0536; (416) 443-0948

Internet:

http://www2.awl.com/corp/

Copyright: ISBN:

1994

0969698135

Title:

What If ...?: The Straight Line: Investigations

with the TI-82 Graphics Calculator

Est. WCP Price(s):

\$12.30

Supplier: LRDC

Phone: (403) 427-5775

(403) 422-9750







Programming and Programs for the TI-82 Graphics Calculator

#### **Authorization Status:**

Authorized Teaching

#### WCP Category:

Teacher

#### Physical Characteristics:

64 pages, softcover



Cluster(s):

| Applied | Al | A2 | <b>A3</b> | <b>A4</b> | <b>A</b> 5 | <b>A6</b> | <b>A</b> 7 | A8 | <b>A</b> 9 |
|---------|----|----|-----------|-----------|------------|-----------|------------|----|------------|
|         |    | 1  |           |           |            |           | 1          | 1  |            |

| Common | Cı | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    | 1          | 1  | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    | 1  | 1  |    | 1  |            |    |    |

#### Annotation:

This teacher resource provides the keystrokes for programming TI-82 calculators and provides explanations and example programs. This resource would be useful for TI-82 users who are interested in programming

#### Comments:

- · Teachers may wish to compare the programming of the graphing calculator with the programming of spreadsheets for the problem-solving activities.
- · Teachers should determine under what conditions programs, once written, can be used by students. Some jurisdictions allow students to use graphing calculator programs written by others, while some do not.

#### Cautions:

- This resource is specific to programming TI-82 calculators only. Modifications of the sequences for programming other Texas Instruments calculators are possible, but modifications for programming calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

Course(s):

|                     | 10 | 20 | 30       |
|---------------------|----|----|----------|
| Applied Mathematics | 1  | 1  | <b>\</b> |
| Pure Mathematics    | 1  | 1  | 1        |

Mathematical Process(es):

| Commun | ication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|--------|---------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|        |         |             |                               | 1                  |           | 1          |               |

#### Strand/Suhstrand(s):

| Nu                 | Number               |          | Patterns and Relations     |                            |             | Shape and Space               |                 | Statistics an    | d Prohability             |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | -                    | 1        | ✓                          | ✓                          |             |                               |                 | •                | •                         |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

P.O. Box 580

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Phone:

(416) 447-5101

Fax: Internet: (800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

Copyright: ISBN:

1994

1895997011

Programming and Programs for the TI-82

Graphics Calculator

Est. WCP Price(s):

\$14.60

Supplier: LRDC

Phone: (403) 427-5775 Fax: (403) 422-9750





Box Cars & One-Eyed Jacks: Math Games for Kids

Radical Math: Math Games Using Cards and Dice (Volume VII) (Grades 7 - 12)

#### **Authorization Status:**

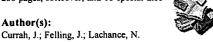
Authorized Teaching

# WCP Category:

Teacher

#### Physical Characteristics:

208 pages, softcover, and 10 special dice



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | <b>A</b> 6 | A7 | A8       | A9 |
|---------|----|----|----|----|----|------------|----|----------|----|
|         |    |    |    |    |    |            |    |          |    |
|         | Ļ  |    |    |    |    |            |    | <u> </u> |    |

| Common | C1 | C2       | <b>C3</b> | C4 | C5 | C6 |
|--------|----|----------|-----------|----|----|----|
|        | 1  | <b>✓</b> |           |    |    |    |



#### Annotation:

This resource offers some unique activities that target the Patterns and Relations strand. The majority of the activities are at the Grade 10 level. The resource encourages the processes of communication, estimation and mental mathematics, problem solving, reasoning, and visualization.

#### Comments:

- · Many of the activities can be used to help students achieve fluency in such topics as polynomial manipulations and the use of equivalent forms of expressions containing radicals.
- There is a good curriculum fit to Pure Mathematics 10; the curriculum fit to Applied Mathematics 10 is not as good.

#### Cautions:

- Some sections of the resource are more suitable for prerequisite studies in Grade 7 to Grade 9.
- Some of the activities, especially those on the trigonometry of right triangles, are mislabelled for grade
- There are few real-life applications in the resource.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  |    |    |
| Pure Mathematics    | 1  |    |    |

Mathematical Process(es):

| Communication | 1 | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| 1             |   | 1                             | 1                  | 1         |            | <b>✓</b>      |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                            | Shape and Spa | ce                            | Statistics and Probability |                  |                           |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|---------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement   | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | _                             | 1        | 1                          |                            |               | 1                             |                            |                  |                           |

Publisher: Box Cars & One-Eyed Jacks

Distributor: Box Cars & One-Eyed Jacks 3930 - 78 Avenue

**EDMONTON AB T6B 2W4** 

te 10 to Grade 12 Mathematics Resources Annotated Bibliography

Phone:

(403) 440-6284

Fax:

(403) 440-1619

berta Education, Alberta, Canada

Copyright:

1996

ISBN: 0968161308

Radical Math: Math Games Using Cards and Dice (Volume VII) (Grades 7 - 12)

Est. WCP Price(s):

\$36.00

Supplier: LRDC

Phone: (403) 427-5775 Fax: (403) 422-9750





Active Learning

Alge-Tiles: Grades 7-11 (Ages

12-16+)

# **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

90 pages, binder



Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         |    |    |    |    |    |    |    |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    |            |    | /  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      | 1  |    | 1  | 1  |    |    |    |    |    |

#### Annotation:

This resource provides hands-on experience by using algebra tiles to help students develop an understanding of ratios, integers, polynomials, and factoring and solving equations. It provides ideas for teachers on how to help students use algebra tiles and the accompanying activity sheets. Each topic includes teacher notes, student blackline master activity sheets and answers for all activities.

#### Comments:

- · Algebra tiles are not included.
- This resource is primarily for Pure Mathematics 10 but can also be used in Applied Mathematics 20 and Pure Mathematics 20.
- The number concepts and number operations outcomes addressed in this resource are in the Grade 7 to Grade 9 curriculum, not the Grade 10 curriculum.

#### Cautions:

• Some sections of the binder are more suitable for prerequisite studies in Grade 7 to Grade 9.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |   | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|---|-----------|------------|---------------|
|               |             |                               | 7 | 1         |            | /             |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            | Shape and Spa              | ce          | Statistics and Probability    |                 |                  |                           |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | •                             | 1        | 1                          |                            |             |                               |                 |                  |                           |

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Title:

Alge-Tiles: Grades 7-11 (Ages 12-16+)

Est. WCP Price(s):

\$34.95

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750





**Explore Quadratic Functions with** the TI-83 or TI-82

#### Annotation:

This manual can be used as either a student or a teacher resource for applying graphing calculator technology to the exploration of quadratic functions and equations. It contains concise and precise instructions on relevant keying sequences. There are many "window" diagrams showing input and output screens. Problems posed relate to real-world situations and provide ample opportunities for discussion, exploration and extension of a variety of situations beyond the routine.

#### **Authorization Status:**

Support

WCP Category:

Depth

# Physical Characteristics:

120 pages, softcover

Author(s): Alexander, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | <b>A6</b> | A7 | A8 | A9 |
|---------|----|----|----|----|----|-----------|----|----|----|
| 1       |    |    |    |    |    |           |    |    |    |
|         |    |    |    | L  |    |           |    |    |    |

| Common | C1 | C2 | C3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    |    |    |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |  |
|------|----|----|----|----|----|----|----|----|----|--|
|      |    |    | 1  | 1  |    |    |    |    |    |  |

#### Cautions:

- The resource uses keying sequences that are specific to the T1-83 and T1-82 models of calculator.
- · Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

1997

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    | 1. |    |
| Pure Mathematics    |    | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |   | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|---|-----------|------------|---------------|
| 1             | 1           | 1                             | / | 1         | 1          | /             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | elations                   |             | Shape and Spa                 | ce              | Statistics and Prohability |                           |  |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    | •                    |          | 1                          | 1                          |             |                               |                 | _                          |                           |  |

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Distributor: Addison-Wesley Longman Ltd.

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Fax: (800) 465-0536; (416) 443-0948 Internet: http://www2.awl.com/corp/

Copyright: ISBN: 0969698143

Title:

Explore Quadratic Functions with the T1-83 or

T1-82

Supplier: LRDC **Phone:** (403) 427-5775

Est. WCP Price(s):

Fax: (403) 422-9750





Exploring Functions with the TI-82 **Graphics Calculator** 

#### Annotation:

This resource contains exercises and investigations that are suitable for a wide range of student abilities. It acts as a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

64 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         |    |    |    |    |    |    |            |    |    |

| Common                                  | Cı | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|---|----|----|------------|----|----|----|
| *************************************** |    | 1  |            |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    |    |    | 1  |            | 1  |    |

#### Cautions:

- The resource uses keying sequences that are specific to the TI-82 model of calculators.
- · Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- · Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| /             | 1           | 1                             | ✓                  | 1         | 1          | 1             |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                         |                            | Shape and Spa | ce                            | Statistics and Probability |                  |                        |
|--------------------|-------------------------------|----------|-------------------------|----------------------------|---------------|-------------------------------|----------------------------|------------------|------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and Equations | Relations and<br>Functions | Measurement   | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and Uncertainty |
|                    |                               |          | 1                       | · 🗸                        |               |                               |                            |                  |                        |

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Internet: http://www2.awl.com/corp/

ISBN: Copyright: 1895997003

Est. WCP Price(s):

Exploring Functions with the TI-82 Graphics Calculator

LRDC

\$14.60

Supplier: **Phone:** (403) 427-5775 (403) 422-9750





Exploring Statistics with the TI-82 **Graphics Calculator** 

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

64 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | A1 | A2 | <b>A3</b> | <b>A</b> 4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|-----------|------------|----|----|----|----|----|
|         |    | 1  |           | 1          |    |    |    |    |    |

| Common | C1 | C2 | С3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    |    | 1  |    |    | 1  |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    | 1  |    |    |    |    | 1  |    |    |

#### Anuotation:

This resource manual uses the TI-82 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

· This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line. The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line. Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| <b>/</b>      | 1 | 1                             | 1                  | ✓         | 1          | <b>√</b>      |

#### Strand/Substrand(s):

| Nu                 | mber                 | Patterns and Relations |                            |                            | Shape and Spa | ce                            | Statistics and Probability |                  |                           |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|---------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns               | Variables and<br>Equations | Relations and<br>Functions | Measurement   | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      |                        |                            |                            |               | •                             |                            | 1                | 1                         |

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Fax: Internet:

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Copyright: ISBN: 1994 189599702X Title:

Exploring Statistics with the TI-82 Graphics

Est. WCP Price(s): \$14.60

Calculator

Supplier:

LRDC

Phone: (403) 427-5775

(403) 422-9750





#### Geometer's Sketchpad

- · The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

#### **Authorization Status:**

Support

# WCP Category:

Depth

#### Physical Characteristics:

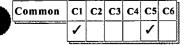
· Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette



· Windows Version: Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

#### Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | <b>A</b> 6 | A7 | A8 | <b>A</b> 9 |
|---------|----|----|----|----|----|------------|----|----|------------|
|         | /  |    | ✓  |    |    |            |    |    |            |



| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    |    | 1  |    |    |    |    |

#### Annotation:

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 20, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 20. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

#### Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.

#### System Requirements:

- · Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6.0 or higher. Recommended is a system with 4 MB RAM and System 7.0 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive.
- · Windows 95: 486/50 MHz, 8MB RAM, hard drive. The use of a Pentium processor and 16 MB RAM is recommended.

#### Cautions:

· The program defaults to inches, but it can be set to centimetres.

Audience: General

#### Course(s):

|                     | 10       | 20 | 30 |
|---------------------|----------|----|----|
| Applied Mathematics | <b>/</b> | 1  |    |
| Pure Mathematics    | 1        | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               | 1                  | 1         | 1          | ✓             |

#### Strand/Substrand(s):

| Nu                 | ımber                | Patterns and R |                            | lations                    |             | Shape and Space               |                 | Statistics at    | nd Probability_           |
|--------------------|----------------------|----------------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns       | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      |                |                            |                            | 1           | 1                             | <b>✓</b>        |                  |                           |

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(905) 841-0600

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(905) 727-6265 http://www.spectrumed.com/ 1995 1995

Copyright:

Component Titles:

· The Geometer's Sketchpad (Macintosh

Est. WCP Price(s): \$274.95

Version 3)

· The Geometer's Sketchpad (Windows Version

\$274.95

3.03)

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750







Geometry Blaster (Windows / Macintosh CD-ROM Version)

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

One CD-ROM



Annotation:

This CD-ROM package includes lessons, activities and games to teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate or a mastery level. In each of the individual lessons there are three sections: teach, practise and apply. The resource is primarily designed for individual student use — drill, practice, recreation and enrichment. The ten main topics explored are: points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3-D, coordinate geometry, transformational geometry, and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

#### Comments:

- The resource is most useful for Grade 10.
- The resource has multiple levels, a good glossary and tutorial lessons to support the games.

**System Requirements:** 

- Macintosh: System 7.0 or higher, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended.

- There is minimal emphasis on real-life problem solving.
- The teacher has limited records with which to check student progress.

Audience: General

#### Cluster(s):

|     |   |   | A. / | AO | A9 |
|-----|---|---|------|----|----|
|     |   | _ |      |    |    |
|     |   |   |      |    |    |
| l l | 1 |   |      |    | 1  |
| _   |   |   |      |    |    |

| Common | C1 | C2 | С3 | C4 | C5 | <b>C</b> 6 |
|--------|----|----|----|----|----|------------|
|        | 1  |    | 1  |    | 1  |            |

| Pure | P1 | P2 | P3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    | 1  |    | 1  |    |            |    |    |

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
|               | 1 | /                             | 1                  | 1         | 1          | <             |

# Strand/Substrand(s):

| Nu                 | ımher                | Pa       | tterns and Re              | elations                |             | Shape and Spa                 | ce              | Statistics and Proha |                           |  |
|--------------------|----------------------|----------|----------------------------|-------------------------|-------------|-------------------------------|-----------------|----------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis     | Chance and<br>Uncertainty |  |
|                    |                      | 1        |                            |                         | 1           | 1                             | 1               |                      |                           |  |

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Copyright: ISBN:

1996

0784910634

Geometry Blaster (Windows / Macintosh CD-ROM Version)

Est. WCP Price(s):

\$79.95

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750







# Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Functions

#### Annotation:

This resource manual includes exercises and investigations suitable for a wide range of student abilities. It provides a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### **Authorization Status:**

Support

#### **WCP Category:**

Depth

#### Physical Characteristics:

32 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| 0145101(5)1 |    |    |    |    |    |            |    |    |    |
|-------------|----|----|----|----|----|------------|----|----|----|
| Applied     | A1 | A2 | А3 | A4 | A5 | <b>A</b> 6 | A7 | A8 | A9 |
|             |    |    |    |    |    |            |    |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    | 1  |            |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | Р8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    | 1  |    | 1  |    | 1  |    |

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The resource uses keying sequences that are specific to the TI-81 graphics calculator.
- Modifications of the sequences for other Texas Instruments graphics calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | 1             |

Strand/Substrand(s):

| Nu                 | ımber                | Pa       | tterns and Re              | lations                    | Shape and Space |                               |                 | Shape and Space Statistics and Pr |                        |  | nd Probability |
|--------------------|----------------------|----------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|-----------------------------------|------------------------|--|----------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis                  | Chance and Uncertainty |  |                |
|                    | -                    |          |                            | 1                          |                 |                               |                 |                                   |                        |  |                |

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te 10 to Grade 12 Mathematics Resources Annotated Bibliography

berta Education, Alberta, Canada

**Copyright: ISBN:** 1991 0969524404

Title:

Using the TI-81 Graphics Calculator to Explore

Est. WCP Price(s): \$8.95

Functions

Supplier: LRDC

**Phone:** (403) 427-5775 **Fax:** (403) 422-9750

Fax: (403) 422-9750
Internet: http://www.lrdc.edc.gov.ab.ca

29







#### Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Statistics

#### **Authorization Status:**

Support

WCP Category:

Depth

#### **Physical Characteristics:**

32 pages, softcover

Author(s):

Kelly, B. .



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         |    | 1  |    | 1  |    |    |            |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    |            |    |    | 1  |

| Pure | P1 | P2 | P3 | P4 | P5 | P6 | P7       | P8 | P9 |
|------|----|----|----|----|----|----|----------|----|----|
|      |    |    |    |    |    |    | <b>✓</b> |    |    |

#### Annotation:

This resource manual uses the TI-81 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- There is no reference to the median-median line.
- Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- · Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    |    |    | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | ✓             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | lations                    | Shape and Space |                               |                 | Statistics and Probabilit |                           |  |
|--------------------|----------------------|----------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|---------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis          | Chance and<br>Uncertainty |  |
|                    |                      |          | _                          |                            |                 |                               |                 | 1                         | ✓                         |  |

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Distributor: Addison-Wesley Longman Ltd.

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Statistics

Using the TI-81 Graphics Calculator to Explore

Est. WCP Price(s):

\$8.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750





What If ...?: The Straight Line: Investigations with the TI-81 **Graphics Calculator** 

#### **Authorization Status:**

Support

**WCP Category:** 

Depth

#### Physical Characteristics:

48 pages, softcover

Author(s):

Alexander, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | <b>A</b> 5 | A6 | <b>A</b> 7 | <b>A</b> 8 | A9 |
|---------|----|----|----|----|------------|----|------------|------------|----|
|         |    |    |    |    |            |    |            |            |    |

| Common | C1 | C2 | С3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    | 1  |    |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    |    |    |    |            |    |    |

#### Annotation:

This resource explores the straight line, using the TI-81 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes.

#### Comments:

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- This "how to" resource is dependent upon the TI-81 calculator.
- . The resource does not cover the line of best fit in any form.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| 1             |             | /                             | /                  | 1         | 1          | 1             |

#### Strand/Substrand(s):

| 2014114112         |                      |                        |                            |                            |             |                               |                            |                  |                           |  |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|--|
| Nu                 | mher                 | Patterns and Relations |                            |                            |             | Shape and Spa-                | Statistics and Prohability |                  |                           |  |
| Number<br>Concepts | Number<br>Operations | Patterns               | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |  |
|                    |                      |                        |                            | 1                          |             |                               |                            |                  |                           |  |

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Fax: Internet: (800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

1993

Copyright: ISBN: 0969698100

What If ...?: The Straight Line: Investigations with the TI-81 Graphics Calculator

Est. WCP Price(s): \$12.30

LRDC

Supplier: Phone: (403) 427-5775

Fax: (403) 422-9750 Internet: http://www.lrdc.edc.gov.ab.ca





What If ...?: The Straight Line: Investigations with the TI-82 Graphics Calculator

| Autho | rization   | Status. |
|-------|------------|---------|
| Authu | 'I ILAUVII | Status. |

Support

WCP Category:

Depth

**Physical Characteristics:** 

80 pages, softcover

Author(s):

Alexander, B.



Cluster(s):

| Applied | A1 | A2 | <b>A3</b> | <b>A</b> 4 | A5 | <b>A</b> 6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|-----------|------------|----|------------|------------|----|----|
| 1       |    | 1  |           | 1          |    |            |            |    |    |

| Common   | C1 | C2 | С3 | C4 | C5 | C6 |
|----------|----|----|----|----|----|----|
| <u> </u> |    | 1  |    |    |    |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | <b>P</b> 9 |
|------|----|----|----|----|----|----|------------|----|------------|
|      |    |    |    |    |    |    |            |    |            |

#### Annotation:

This resource explores the straight line, using the TI-82 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes. This resource also introduces the concept of line of best fit.

#### Comments

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

#### Cautions:

- This "how to" resource is dependent upon the TI-82 calculator.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pnre Mathematics    | 1  |    |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |          | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|----------|-----------|------------|---------------|
|               |             | 1                             | <b>✓</b> |           | 1          |               |

#### Strand/Substrand(s):

| Nu                 | Number         Patterns and Relations           Number         Number         Patterns         Variables and         Relations and |          |                            |                         |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|--|----------|----------------------------|-------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations   | Patterns | Variables and<br>Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |  |          |                            | <b>/</b>                |             |                               |                            | 1                | •                         |

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Internet: http://www2.awl.com/corp/

Copyright: ISBN:

18BN: 110 0969698135 Wha

Title:

What If...?: The Straight Line: Investigations with the TI-82 Graphics Calculator

\$12.30

**Supplier:** LRDC **Phone:** (403) 427-5775

Est. WCP Price(s):

Phone: (403) 427-5775 Fax: (403) 422-9750







Programming and Programs for the T1-82 Graphics Calculator

#### **Authorization Status:**

Authorized Teaching

#### **WCP Category:**

Teacher

#### Physical Characteristics:

64 pages, softcover

#### Author(s):

Kelly, B.



Cluster(s):

|         |    |    | _  |    |    |    |    | _  | _  |
|---------|----|----|----|----|----|----|----|----|----|
| Applied | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
|         |    | 1  |    |    |    |    | 1  | /  |    |

| Common | C1 | C2 | С3 | C4 | C5 | <b>C</b> 6 |
|--------|----|----|----|----|----|------------|
| *      |    |    | 1  | /  | 1  |            |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    | 1  | 1  |    | 1  |    |    |    |

#### Annotation:

This teacher resource provides the keystrokes for programming TI-82 calculators and provides explanations and example programs. This resource would be useful for TI-82 users who are interested in programming

#### Comments:

- Teachers may wish to compare the programming of the graphing calculator with the programming of spreadsheets for the problem-solving activities.
- · Teachers should determine under what conditions programs, once written, can be used by students. Some jurisdictions allow students to use graphing calculator programs written by others, while some do not.

#### Cautions:

- This resource is specific to programming TI-82 calculators only. Modifications of the sequences for programming other Texas Instruments calculators are possible, but modifications for programming calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|--------------------|-----------|------------|---------------|
|               |             |                            | 1                  |           | 1          |               |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                            |             | Shape and Space               | ce              | Statistics and Probability |                           |  |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    |                               | 1        | 1                          |                            |             |                               | _               |                            |                           |  |

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http://www2.awl.com/corp/

Copyright: ISBN:

1994 1895997011

Programming and Programs for the TI-82

Graphics Calculator

Est. WCP Price(s):

\$14.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750







Exploring Statistics with the TI-82 Graphics Calculator

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

64 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         | b  | 1  |    | 1  |    |    |            |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    | 1          |    |    | 1  |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    | 1  |    |    |    |    | 1          |    |    |

#### Annotation:

This resource manual uses the TI-82 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

#### Comments:

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

• The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line. The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line. Additional resources are needed to cover the line based on the least squares sum of the shortest distances.

• Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10       | 20 | 30 |
|---------------------|----------|----|----|
| Applied Mathematics | 1        | 1  | 1  |
| Pure Mathematics    | <b>/</b> |    | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |   | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|---|-----------|------------|---------------|
| 1             | 1           | 1                             | ✓ | 1         | 1          | ✓             |

#### Strand/Substrand(s):

| Nu                 | ımber                | Pa       | tterns and Re           | lations                    | Shape and Space |                               |                 | Statistics and Probabilit |                           |  |
|--------------------|----------------------|----------|-------------------------|----------------------------|-----------------|-------------------------------|-----------------|---------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and<br>Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis          | Chance and<br>Uncertainty |  |
|                    | -1                   |          | •                       |                            |                 |                               |                 | 1                         | <b>*</b>                  |  |

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1994

Cnpyright: ISBN: 189599702X Title:

Exploring Statistics with the TI-82 Graphics

Est. WCP Price(s): \$14.60

Calculator

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750





#### Secondary Math

- Secondary Math Lab Toolkit (Macintosh Version)
- Secondary Math Lab Toolkit (Windows Version)

#### **Authorization Status:**

Support

#### **WCP Category:**

Depth

#### Physical Characteristics:

- Macintosh Version: Three 3.5" discs and User's Guide, 128 pages, softcover
- Windows Version: Five 3.5" discs and User's Guide, 128 pages, softcover



#### Author(s):

Bedoya, J.Z. et al.

#### Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         |    |    |    |    |    | 1  |    | 1  | 1  |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 | *********** |
|--------|----|----|------------|----|----|----|-------------|
|        |    |    |            |    |    |    | *           |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    | 1  |    | 1  | /  | 1  | 1          | 1  | 1  |

#### Annotation:

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

#### Comments:

- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming functions from symbolic editor to graphs and vice versa.

#### System Requirements:

- Macintosh: minimum of a Macintosh LC II, with 6 MB RAM and System 7.0 or higher. Recommended is a PowerMac system with 8 MB RAM and System 7.5 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 486/33 MHz, 12 MB RAM, hard drive.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive. The use of a Pentium processor with 16 MB RAM is recommended.

#### Cautions:

- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representations are very limited and are harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    |    | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | <b>\</b>      |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re           | elations                   |             | Shape and Spa                 | ce              | Statistics and Probabilit |                           |  |
|--------------------|----------------------|----------|-------------------------|----------------------------|-------------|-------------------------------|-----------------|---------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis          | Chance and<br>Uncertainty |  |
|                    | 1                    | 1        | 1                       |                            |             | 1                             | 1               | 1                         | 1                         |  |

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0134330447

39

Secondary Math Lab Toolkit (Macintosh

Version)

**Component Titles:** 

• Secondary Math Lab Toolkit (Windows

Est. WCP Price(s):

\$137.95 (Single User

Version)

\$499.95 (Site License)

\$137.95 (Single User

Version

\$499.95 (Site License)

**Supplier:** LRDC **Phone:** (403) 427-5775

Fax: (403) 422-9750





Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Statistics

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### Physical Characteristics:

32 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | Al | A2 | А3 | <b>A</b> 4 | <b>A</b> 5 | A6 | A7 | A8 | <b>A9</b> |
|---------|----|----|----|------------|------------|----|----|----|-----------|
|         |    | ✓  |    | ✓          |            |    |    |    |           |

|             | Cı | C2 | C3 | C4 | C5 | C6 |
|-------------|----|----|----|----|----|----|
| <del></del> |    |    |    |    |    | 1  |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    |    |    | Г  | 1  | _  |    |

#### Annotation:

This resource manual uses the T1-81 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

#### Comments:

• This manual may be used at any level where statistics or probability components are taught.

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- There is no reference to the median-median line.
- · Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

1992

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    |    |    | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | i ' | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|-----|-----------|------------|---------------|
|               |             |                               |     | _         | 1          | /             |

#### Strand/Substrand(s):

| Number Patterns and Relations |                      | Shape and Space |                            |                            | Statistics and Prohability |                               |                 |                  |                           |
|-------------------------------|----------------------|-----------------|----------------------------|----------------------------|----------------------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts            | Number<br>Operations | Patterns        | Variables and<br>Equations | Relations and<br>Functions | Measurement                | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                               | •                    |                 |                            |                            |                            | •                             |                 | 1                | <b>√</b>                  |

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Copyright: ISBN: 0969524412

Title:

Using the TI-81 Graphics Calculator to Explore

Est. WCP Price(s):

Statistics

Supplier: LRDC

**Phone:** (403) 427-5775 Fax: (403) 422-9750





Programming and Programs for the TI-82 Graphics Calculator

#### **Authorization Status:**

Authorized Teaching

#### WCP Category:

Teacher

#### **Physical Characteristics:**

64 pages, softcover

#### Author(s):

Kelly, B.



Cluster(s):

| Applied                         | A1 | A2 | А3 | A4 | A5 | <b>A</b> 6 | A7 | A8 | A9 |
|---------------------------------|----|----|----|----|----|------------|----|----|----|
| grittinio: too day and a series |    | 1  |    |    |    |            | 1  | 1  |    |

| Cı | C2 | C3 | C4 | C5 | C6 |
|----|----|----|----|----|----|
|    |    | 1  | 1  | 1  |    |

| Pure | P1 | P2 | Р3 | P4       | P5 | P6 | <b>P7</b> | P8 | <b>P9</b> |
|------|----|----|----|----------|----|----|-----------|----|-----------|
|      |    |    | 1  | <b>~</b> |    | 1  |           |    |           |

#### Annotation:

This teacher resource provides the keystrokes for programming TI-82 calculators and provides explanations and example programs. This resource would be useful for TI-82 users who are interested in programming

#### Comments:

- Teachers may wish to compare the programming of the graphing calculator with the programming of spreadsheets for the problem-solving activities.
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- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

### Mathematical Process(es):

| Communication | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |                               | <b>✓</b>           | ·         | 1          |               |

#### Strand/Substrand(s):

| Nu                 | ımber                | Pa       | tterns and Re              | elations                   |             | Shape and Spa                 | ce              | Statistics ar    | nd Prohability            |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      | 1        | <                          | /                          |             |                               |                 |                  |                           |

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Internet:

http://www2.awl.com/corp/

Copyright: ISBN:

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Programming and Programs for the TI-82

Graphics Calculator

Est. WCP Price(s):

\$14.60

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750





# Addison-Wesley Mathematics 10 (Western Canadian Edition)

- · Student Text
- Independent Study Guide
- Teacher's Resource Book (includes CD-ROM with Selected Solutions from Student Text and Self-Test Solutions from Independent Study Guide)
- Template and Data Kit (includes Teacher's Guide and CD-ROM, Version 1.0)

#### **Authorization Status:**

Basic

#### WCP Category:

Breadth

#### Physical Characteristics:

- Student Text 651 pages, hardcover
- Independent Study Guide 138 pages, softcover
- Teacher's Resource Book 30 pages, coilbound; and one CD-ROM
- Template and Data Kit Teacher's Guide, 154 pages, coilbound; and one CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)



Author(s):

Alexander, R. et al.

#### Annotation:

The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes are embedded throughout the resource. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the student text.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities.

#### • Student Text

The text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. Further attention to the mathematical processes is found in the other components of the resource.

· Independent Study Guide

This resource provides students with additional examples and explanations to supplement the material in the main student resource. An introductory chapter helps the student develop efficient study skills. For the other nine chapters, which parallel the chapters of the student text, additional explanations, cross-referenced self-tests, mini-glossaries and overviews provide additional assistance to the student. Solutions to the self-tests included in the independent study guide are given at the back of the guide in short form, and in more extended form on a CD-ROM included in the teacher's resource book.

· Teacher's Resource Book

The teacher's resource book contains comprehensive teaching notes for each section of the student text, and blackline masters, as well as reinforcement, extension, enrichment and assessment activities. A graphing calculator handbook and reproducible graphing calculator activities are included. A CD-ROM with solutions to the student text and independent study guide is part of the teacher's resource book.

· Template and Data Kit

This resource includes four extensive databases: weather, helicopters, Olympic Summer Games and youth health; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

#### Comments:

- The student resource attempts to incorporate the mathematical processes and the philosophy of the Common Curriculum Framework through the use of appropriate section headings and icons.
- In each of the chapters of the teacher resource there is cross-referencing of the mathematical processes to the materials being presented to the students. Emphasis given to technological solutions is most apparent in the teacher resource.
- Exercises are split into A, B and C levels. Students who only do the A exercises will not have enough
  exposure to the mathematical processes.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively. These are not supplied with the resource.

#### **System Requirements:**

Template and Data Kit

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

#### Cautions:

- References are made in both the student and the teacher materials to specific Internet web sites, including
  one mathematics site being maintained by Addison-Wesley Longman. These web sites, including
  Addison-Wesley Longman's own site, are not approved. Teachers, for their own protection, should review
  the current status of the web sites, including the documents identified in the links, to ensure that the site
  contains accurate information and information that meets the criterion of social considerations, especially
  tolerance and understanding.
- In the treatment of the outcomes related to right-angled trigonometry, there is material in the student resource that relates only to the outcomes incorporated in the Common Curriculum Framework at the Grade 9 level.
- The template and data kit can only be used with ClarisWorks, Microsoft Works or Microsoft Excel/Access when used in a Windows 95 environment. In a Windows 3.1 environment, only ClarisWorks can be used.

Audience: General

Continued



| Cluster(s): | ,                   |    |          |    |    |    |          |    |    |
|-------------|---------------------|----|----------|----|----|----|----------|----|----|
| Applied     | 1                   | A2 | A3       | A4 | A5 | A6 | A7       | A8 | A9 |
| <u> </u>    | <u>ـــــ</u><br>احد |    |          | _  | _  |    | <u> </u> |    |    |
| Common      |                     | C2 | C3       | C4 | C5 | C6 |          |    |    |
|             | <b>✓</b>            | 1  | <u>/</u> |    |    |    |          |    |    |
| Pure        | P1                  | P2 | Р3       | P4 | P5 | P6 | P7       | Р8 | P9 |
|             | 1                   | 1  |          |    |    |    |          |    |    |

| Course(s):          |    |    |    |
|---------------------|----|----|----|
|                     | 10 | 20 | 30 |
| Applied Mathematics |    |    |    |
| Pure Mathematics    | 1  |    |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| 1             | 1           | /                             | 1                  | 1         | 1          | . 1           |

### Strand/Substrand(s):

| Nu                 | ımber                | Pa       | tterns aud Re              | elations                   |             | Shape and Spa                 | ce              | Statistics at    | nd Probability            |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
| 1                  | 1                    | 1        | 1                          | 1                          | 1           | 1                             | N/A             | 1                | 1                         |

| Publisher:     | Addison-Wesley                                   | Copyright: | ISBN:      | Component Titles:  | Est. WCP Price(s): |
|----------------|--|------------|------------|--|--------------------|
| Distributor    | : Addison-Wesley Longman Ltd.                    | 1998       | 0201346192 | • Student Text   | \$49.95            |
|                | 26 Prince Andrew Place                           | 1998       | 0201346206 | Independent Study Guide  | \$5.95             |
|                | P.O. Box 580<br>DON MILLS ON M3C 2T8             | 1998       | 0201346214 | <ul> <li>Teacher's Resource Book (includes CD-ROM<br/>with Selected Solutions from Student Text and</li> </ul> | \$119.95           |
| Phone:<br>Fax: | (416) 447-5101<br>(800) 465-0536; (416) 443-0948 |            |            | Self-Test Solutions from Independent Study Guide)  |                    |
| Internet:      | http://www2.awl.com/corp/                        | 1998       | 0201346230 | Template and Data Kit (includes Teacher's<br>Guide and CD-ROM, Version 1.0)                                    | \$119.95           |

Supplier: LRDC

**Phone:** (403) 427-5775

Fax: (403) 422-9750



# WCP

# PURE MATHEMATICS 10 LEARNING AND TEACHING RESOURCES

### MATHPOWER 10 (Western

#### Edition)

- Student Text
- Teacher's Resource
- Computer Data Bank (Teacher's Resource and Data Disk)
- · Computerized Assessment Bank

#### **Authorization Status:**

Basic

#### WCP Category:

Breadth

#### Physical Characteristics:

- Student Text 480 pages, hardcover
- Teacher's Resource 310 pages, softcover
- Computer Data Bank Teacher's Resource, 98 pages, softcover; Data Disk, one 3.5" disc
- Computerized Assessment Bank Four 3.5" discs; and User's Notes, 27 pages, softcover



#### Author(s):

Angel, P. et al.

#### Annotation:

The resource package closely maps the content and philosophy of the Common Curriculum Framework. The framework's mathematical processes are woven throughout the resource. A conscientious effort was made to relate the mathematical concepts to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are integrated in examples and activities.

#### Student Text

The text has eight chapters that relate to topics from the Common Curriculum Framework strands. Each chapter begins with a connection problem followed by a "Getting Started" section. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Suggestions are made for incorporating graphing calculators and computer software. Chapter reviews as well as cumulative reviews are provided. Resources at the end of the text include data banks, answers, glossary, applications index and technology index.

#### · Teacher's Resource

The teacher's resource contains extensive teaching notes, including enrichment and reteaching ideas, a list of prerequisite skills, and assessment strategies. Also included are suggestions for addressing the use of technology and the mathematical processes, especially communication, mental mathematics, problem solving and connections. Some answers for problems are provided, with one solution being given for those problems with multiple approaches/solutions. Blackline masters are included for grid, dot and geometric net shapes, and for alternate assessment forms.

#### · Computer Data Bank

This resource includes five extensive, high interest databases — movies, sports, skiing, Olympics and insurance — together with a teacher's resource. In addition to application blackline masters for student work, software specific blackline masters are included to help teach database management skills. Questions address a wide variety of outcomes.

#### · Computerized Assessment Bank

This Windows based (3.1 or 95) software package includes a manual, a mathematical editor and a question bank. There are about 50 questions per chapter. Some multiple choice questions can have their distractors reordered; and, for many other questions, the user can change key parameters in the stem, whereupon the program will change the distractors with a click of a button. The mathematical editor allows teachers to add questions to address more fully the philosophy of the program.

#### Comments

- The introductory pages of the student resource, which outline the mathematical processes and the NCTM Standards, are an essential part of the resource.
- An introduction to the operation of ClarisWorks for Windows 4.0 and Microsoft Works for Windows 3.0 is included as part of the teacher's resource for the computer data bank.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively.
   These are not supplied with the resource.

#### System Requirements:

Computer Data Bank

- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks or Microsoft Works.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), Microsoft Works.
   Windows 95 recommended.

#### Computerized Assessment Bank

- Windows 95: 486DX/66 MHz, Pentium processor recommended, 8 MB RAM, mouse, either ClarisWorks or Microsoft Works.
- Windows 3.1: 486DX/66 MHz, Pentium processor recommended, 5 MB RAM (8 MB recommended), Microsoft Works. Windows 95 recommended.

#### Cautions:

- References are made in both the student and the teacher materials to specific Internet web sites. The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations, especially tolerance and understanding.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.
- The computerized assessment bank is a test generator but does not include a tracking system.
  The computer data bank can only be used with ClarisWorks for Windows or Microsoft Works for Windows. It does not include either a Macintosh version or a version that can be used with any of the standard office suites, whether Macintosh or Windows 95.
- For those using the 486DX chip, a math coprocessor is required to use the computerized assessment bank. The bank can be operated with all Pentium chips.

Audience: General

Continued





| Applied | F        | A2 | А3         | A4 | A5 | A6 | <b>A</b> 7 | A8 | AS |
|---------|----------|----|------------|----|----|----|------------|----|----|
|         |          |    |            |    |    |    |            |    |    |
| Common  | C1       | C2 | <b>C</b> 3 | C4 | C5 | C6 | 1          |    |    |
|         | <b>/</b> | 1  | 1          |    |    |    |            |    |    |
| Pure    | P1       | P2 | Р3         | P4 | P5 | P6 | P7         | P8 | P9 |
| 1 4. 0  |          |    |            |    |    |    |            |    |    |

| Course(s):          |    |    |    |
|---------------------|----|----|----|
|                     | 10 | 20 | 30 |
| Applied Mathematics |    |    |    |
| Pure Mathematics    | 1  |    |    |

### Mathematical Process(es):

| Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| 1             | / | 1                             | 1                  | /         | 1          | 1             |

Strand/Substrand(s):

| . Nu               | ımber                | Pa       | tterns and Re              | elations                |             | Shape and Spa                 | ce              | Statistics a     | nd Probability            |
|--------------------|----------------------|----------|----------------------------|-------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
| 1                  | 1                    | 1        | 1                          | ✓                       | 1           | 1                             | N/A             | 1                | 1                         |

Est. WCP Price(s): Publisher: McGraw-Hill Ryerson Copyright: ISBN: Component Titles: 1998 \$48.95 0075525968 Distributor: McGraw-Hill Ryerson Ltd. • Student Text 300 Water Street 1998 0075525976 · Teacher's Resource \$110.00 WHITBY ON LIN 9B6 1998 0075600196 • Computer Data Bank (Teacher's Resource and \$110.00 Data Disk) Phone: (905) 430-5080 1998 0075601621 · Computerized Assessment Bank \$225.00 (905) 430-5194 Fax: Internet: http://www.mcgrawhill.ca

Supplier: LRDC **Phone:** (403) 427-5775 Fax: (403) 422-9750





Active Learning

Alge-Tiles: Grades 7-11 (Ages 12-16+)

### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

90 pages, binder



Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
| 1       |    |    |    |    | -  |    |            |    |    |
|         |    |    | L  |    |    |    |            |    |    |

| Common | C1 | C2 | C3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    |    |    |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      | 1  |    | 1  | 1  |    |    |            |    |    |

#### Annotation:

This resource provides hands-on experience by using algebra tiles to help students develop an understanding of ratios, integers, polynomials, and factoring and solving equations. It provides ideas for teachers on how to help students use algebra tiles and the accompanying activity sheets. Each topic includes teacher notes, student blackline master activity sheets and answers for all activities.

#### Comments:

- · Algebra tiles are not included.
- This resource is primarily for Pure Mathematics 10 but can also be used in Applied Mathematics 20 and Pure Mathematics 20.
- The number concepts and number operations outcomes addressed in this resource are in the Grade 7 to Grade 9 curriculum, not the Grade 10 curriculum.

• Some sections of the binder are more suitable for prerequisite studies in Grade 7 to Grade 9.

Audience: General

Course(s):

| C0413C(3)1          |    |    |    |
|---------------------|----|----|----|
|                     | 10 | 20 | 30 |
| Applied Mathematics |    | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |   | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|---|-----------|------------|---------------|
|               |             |                               | ✓ | 1         |            | /             |

#### Strand/Substrand(s):

| Nu                 | ımber                | Pa       | tterns and Re              | elations                   |             | Shape and Spa                 | ce              | Statistics and Probability |                           |  |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    | •                    | 1        | 1                          |                            |             |                               |                 |                            |                           |  |

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Distributor: Exclusive Educational Products

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Copyright: 1991

Alge-Tiles: Grades 7-11 (Ages 12-16+)

Est. WCP Price(s):

Supplier:

**Phone:** (403) 427-5775 Fax:

(403) 422-9750 Internet: http://www.lrdc.edc.gov.ab.ca





Exploring Functions with the TI-82 **Graphics Calculator** 

#### Annotation:

This resource contains exercises and investigations that are suitable for a wide range of student abilities. It acts as a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The resource uses keying sequences that are specific to the TI-82 model of calculators.
- Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- · Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### Physical Characteristics:

64 pages, softcover



Kelly, B.



Cluster(s):

| Applied | <b>A1</b> | A2 | A3 | A4         | A5 | A6 | A7 | A8 | A9 |
|---------|-----------|----|----|------------|----|----|----|----|----|
|         |           |    |    | 2000000000 |    |    |    |    |    |

| Common | C1 | C2 | C3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    | 1  |    |    | 1  |    |

| Pure                                    | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|---|----|----|----|----|----|----|------------|----|----|
| *************************************** |    |    |    |    |    | 1  |            | 1  |    |

#### Course(s):

1993

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | ✓  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| /             | <b>✓</b>    | ✓                             | 1                  | ✓         | 1          | ✓             |

### Strand/Substrand(s):

| Nu                 | mher                 | Pa       | Patterns and Relations     |                            |             | Shape and Space               |                 |                  | nd Prohahility         |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and Uncertainty |
|                    | •                    |          | .√                         | ✓                          |             |                               |                 |                  |                        |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd. 26 Prince Andrew Place

P.O. Box 580

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(416) 447-5101

Fax: (800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

Internet:

Copyright: ISBN: 1895997003

Exploring Functions with the TI-82 Graphics

Est. WCP Price(s):

\$14.60

Supplier: LRDC

**Phone:** (403) 427-5775

Fax: (403) 422-9750







Exploring Statistics with the TI-82 Graphics Calculator

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

64 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         |    | 1  |    | 1  |    |    |            |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | <b>C</b> 6 |
|--------|----|----|------------|----|----|------------|
|        |    |    | 1          |    |    | 1          |

| Pure                                    | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P7</b> | P8 | Р9 |
|---|----|----|----|----|----|----|-----------|----|----|
| *************************************** |    | 1  |    |    |    |    | 1         |    |    |

#### Annotation:

This resource manual uses the TI-82 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

#### Comments:

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

• The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line. The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line. Additional resources are needed to cover the line based on the least squares sum of the shortest distances.

• Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| 1             | 1 | <b>✓</b>                      | /                  | /         |            | ✓             |

#### Strand/Substrand(s):

| Straine, Sur       | 35 tr mira(5):                |          | <u> </u>                   |                         |               |                               |                 |                  |                           |
|--------------------|-------------------------------|----------|----------------------------|-------------------------|---------------|-------------------------------|-----------------|------------------|---------------------------|
| Nu                 | Number Patterns and Relations |          |                            |                         | Shape and Spa | Statistics and Probability    |                 |                  |                           |
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and Functions | Measurement   | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
| •                  | •                             |          | •                          |                         |               |                               |                 | 1                | <b>✓</b>                  |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

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**Phone:** (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: http://www2.awl.com/corp/

**Copyright: ISBN:** 189599702X

Title:

Exploring Statistics with the TI-82 Graphics

Calculator

\$14.60

**Supplier:** LRDC **Phone:** (403) 427-5775

Est. WCP Price(s):

Fax: (403) 427-3775





#### Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

#### **Authorization Status:**

Support

### WCP Category:

Depth

#### Physical Characteristics:

- · Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- · Windows Version: Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



#### Cluster(s):

| <br> | ^'       | AO | A5 | A4 | A3 | A2 | A1 | Applied            |
|------|----------|----|----|----|----|----|----|--------------------|
|      |          |    |    |    | 1  |    | 1  |                    |
|      |          | C6 | C5 | C4 | С3 | C2 | C1 | Common             |
|      |          |    | 1  |    |    |    | 1  | komonius marinius. |
|      | <u> </u> | P6 |    |    |    |    | _  |                    |

#### Annotation:

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 20, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 20. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

#### Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.

#### System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6.0 or higher. Recommended is a system with 4 MB RAM and System 7.0 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive.
- Windows 95: 486/50 MHz, 8MB RAM, hard drive. The use of a Pentium processor and 16 MB RAM is recommended.

#### Cautions:

• The program defaults to inches, but it can be set to centimetres.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               | 1                  | 1         | 1          | /             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | Patterns and Relations Shape and Space |                            |             | Shape and Space               |                 |                  | nd Probability            |
|--------------------|----------------------|----------|--|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations             | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      |          |  |                            | 1           | ✓                             | ✓               |                  |                           |

Publisher: Spectrum Educational Supplies Ltd.

Distributor: Spectrum Educational Supplies Ltd.

125 Mary Street

**AURORA ON L4G 1G3** 

Phone: Fax:

(905) 841-0600

Internet:

(905) 727-6265 http://www.spectrumed.com/ 1995

1995

Copyright:

Component Titles:

Est. WCP Price(s):

• The Geometer's Sketchpad (Macintosh

Version 3) • The Geometer's Sketchpad (Windows Version \$274.95 \$274.95

Supplier:

LRDC

**Phone:** (403) 427-5775

Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca





Geometry Blaster (Windows / Macintosh CD-ROM Version)

#### Authorization Status:

Support

WCP Category:

Depth

Physical Characteristics:

One CD-ROM



Cluster(s):

| Applied  | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
|----------|----|----|----|----|----|----|----|----|----|
| <u> </u> |    |    |    |    |    |    |    |    |    |

| Common | C1 | C2 | С3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
| THE    | 1  |    | 1  |    | 1  |    |

| Pure     | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|----------|----|----|----|----|----|----|----|----|----|
| <b>H</b> |    |    | 1  |    | 1  |    |    |    |    |

#### Annotation:

This CD-ROM package includes lessons, activities and games to teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate or a mastery level. In each of the individual lessons there are three sections: teach, practise and apply. The resource is primarily designed for individual student use — drill, practice, recreation and enrichment. The ten main topics explored are: points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3-D, coordinate geometry, transformational geometry, and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

#### Comments:

- The resource is most useful for Grade 10.
- The resource has multiple levels, a good glossary and tutorial lessons to support the games.

#### System Requirements:

- Macintosh: System 7.0 or higher, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended. • Windows 95: 486/50 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics
- cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended.

#### Cautions:

- There is minimal emphasis on real-life problem solving.
- The teacher has limited records with which to check student progress.

Audience: General

#### Course(s):

Copyright:

1996

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               | 1           | 1                             | /                  | 1         | 1          | 1             |

#### Strand/Substraud(s):

| Nu                 | Number Patterns and Relatious |          |                            |                            | Shape and Spa | Statistics and Probability    |                 |                  |                           |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|---------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement   | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                               | 1        |                            |                            | 1             | 1                             | 1               |                  |                           |

Publisher: Davidson & Associates, Inc.

Distributor: Davidson & Associates, Inc.

P.O. Box 2961 19840 Pioneer Avenue

TORRANCE CA 90503

http://www.education.com/

Phone: Fax:

(310) 793-0600, ext. 1291

Internet:

(310) 793-0601

ISBN: 0784910634

Title:

Geometry Blaster (Windows / Macintosh

Est. WCP Price(s):

\$79.95

CD-ROM Version)

Supplier:

LRDC Phoue: (403) 427-5775 Fax: (403) 422-9750

Interuet: http://www.lrdc.edc.gov.ab.ca





RADE (Radian Protractor and Teacher's Guide)

#### Authorization Status:

Support

WCP Category:

Depth

#### Physical Characteristics:

One Radian Protractor and Teacher's Guide, 20 pages, loose, all in a softcover folder



Author(s):

Gagnon-Messier, D.; Forget, R.

#### Cluster(s):

| Applied  | <b>A</b> 1 | A2          | A3 | <b>A</b> 4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|----------|------------|-------------|----|------------|----|----|------------|----|----|
| <u> </u> |            |             |    |            |    |    |            |    |    |
|          |            | *********** |    |            |    |    |            |    |    |

| Common | C1 | C2 | C3       | C4 | C5 | C6 |
|--------|----|----|----------|----|----|----|
|        |    |    | <b>√</b> |    |    |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    |    |    |    |            | ✓  |    |

#### Annotation:

The RADE is a circular protractor with scales in radians and decimals of a radian, p radians and fractions of p radians, as well as degrees. The accompanying teacher's guide explains the use of the protractor and provides overheads and question/answer worksheets for student use to reinforce concepts.

#### Comments:

- This resource is available in English and in French.
- The use of this resource is primarily limited to Pure Mathematics 30, outcomes P8-1 and P8-2, with a limited applicability to cluster C3 in Pure Mathematics 10 and Applied Mathematics 10.

#### Cautions:

- This resource is often marketed as part of a kit that contains other elements. The other components of the kit were either not approved as WCP resources for Grade 10 to Grade 12, or considered as more appropriate for Grade 7 to Grade 9.
- The approved resource consists only of the student protractor and the accompanying print guide.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  |    |    |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| Communication | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓             | 1                             |                    | <b>✓</b>  |            | 1             |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                            |             | Shape and Spa                 | Statistics and Probability |                  |                        |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and Uncertainty |
|                    |                               |          | -                          | <b>√</b>                   | 1           | 1                             |                            |                  |                        |

Publisher: Société RADE Enr.

**Distributor:** Curriculum Innovations

Box 48, Site 3, RR4

STONY PLAIN AB T7Z 1X4

Phone: Fax:

(403) 963-5992 (403) 963-5981

Title:

Est. WCP Price(s):

RADE (Radian Protractor and Teacher's Guide)

\$10.00

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750





#### Secondary Math

- · Secondary Math Lab Toolkit (Macintosh Version)
- · Secondary Math Lab Toolkit (Windows Version)

#### **Authorization Status:**

Support

### WCP Category:

Depth

#### Physical Characteristics:

- · Macintosh Version: Three 3.5" discs and User's Guide, 128 pages, softcover
- Windows Version: Five 3.5" discs and User's Guide, 128 pages, softcover



#### Author(s):

Bedoya, J.Z. et al.

#### Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         |    |    |    |    |    | 1  |            | 1  | 1  |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    |            |    |    |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    | 1  |    | 1  | 1  | 1  | 1          | 1  | 1  |

#### Annotation:

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

#### Comments:

- · Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming functions from symbolic editor to graphs and vice versa.

#### System Requirements:

- Macintosh: minimum of a Macintosh LC II, with 6 MB RAM and System 7.0 or higher. Recommended is a PowerMac system with 8 MB RAM and System 7.5 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 486/33 MHz, 12 MB RAM, hard drive.
- · Windows 95: 486/50 MHz, 12 MB RAM, hard drive. The use of a Pentium processor with 16 MB RAM is recommended.

#### Cautions:

- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representations are very limited and are harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    |    | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communicatio | n Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|--------------|---------------|-------------------------------|--------------------|-----------|------------|---------------|
|              |               |                               |                    |           | 1          | 1             |

#### Strand/Substrand(s):

Internet:

| Nu                 | Number Patterns and Relations |          |                         |                            | Shape and Spa | Statistics and Probability    |                 |                  |                           |
|--------------------|-------------------------------|----------|-------------------------|----------------------------|---------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and Equations | Relations and<br>Functions | Measurement   | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | 1                             | 1        | 1                       | /                          |               | 1                             | 1               | 1                | 1                         |

Publisher: Prentice Hall, Inc.

Distributor: Prentice Hall Ginn Publishing Co.

1870 Birchmount Road

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Phone: (416) 293-3621

Fax: (416) 297-2601

http://www.prenhall.com/

Copyright: ISBN: Component Titles: 1998

0134330439 · Secondary Math Lab Toolkit (Macintosh

Version)

1998 0134330447 · Secondary Math Lab Toolkit (Windows

Version)

Est. WCP Price(s):

\$137.95 (Single User Version)

\$499.95 (Site License)

\$137.95 (Single User

Version) \$499.95 (Site License)

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750







Using the TI-81 Graphics Calculator Using the TI-81 Graphics Calculator to Explore Functions

**Authorization Status:** 

Support

WCP Category:

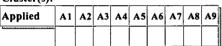
Depth

Physical Characteristics:

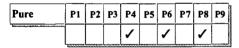
32 pages, softcover

Author(s): Kelly, B.





|  | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--|----|------------|----|----|----|
|  | 1  |            |    | 1  |    |



#### Annotation:

This resource manual includes exercises and investigations suitable for a wide range of student abilities. It provides a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The resource uses keying sequences that are specific to the TI-81 graphics calculator.
- · Modifications of the sequences for other Texas Instruments graphics calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

Mathematical Process(es):

| Communication | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |                               |                    |           | ✓          | 1             |

Strand/Substrand(s):

|                    |                               | _        |                         |                            | _                          |                               |                 |                  |                           |
|--------------------|-------------------------------|----------|-------------------------|----------------------------|----------------------------|-------------------------------|-----------------|------------------|---------------------------|
| Nu                 | Number Patterns and Relations |          |                         | Shape and Spa              | Statistics and Probability |                               |                 |                  |                           |
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and Equations | Relations and<br>Functions | Measurement                | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                               |          |                         | 1                          |                            |                               |                 |                  |                           |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone:

(416) 447-5101

Fax: Internet: (800) 465-0536; (416) 443-0948

http://www2.awl.com/corp/

Copyright: 1991

ISBN: 0969524404

Using the T1-81 Graphics Calculator to Explore

Est. WCP Price(s): \$8.95

Functions

Supplier: LRDC **Phone:** (403) 427-5775

Fax: (403) 422-9750





What If ...?: The Straight Line: Investigations with the TI-81 **Graphics Calculator** 

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### Physical Characteristics:

48 pages, softcover

### Author(s):

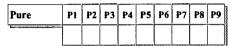
Alexander, B.



Cluster(s):

| Applied | Al | A2           | A3 | A4 | A5 | <b>A</b> 6 | A7 | A8 | A9 |
|---------|----|--------------|----|----|----|------------|----|----|----|
|         |    |              |    |    |    |            |    |    |    |
|         |    |              |    |    |    |            |    |    |    |
|         |    | ************ |    |    |    |            |    |    |    |

| Common                 | Cı | C2 | C3 | C4 | C5 | C6 |
|------------------------|----|----|----|----|----|----|
| potential and a second |    | 1  |    |    | 1  |    |



#### Annotation:

This resource explores the straight line, using the TI-81 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes.

#### Comments:

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- This "how to" resource is dependent upon the Tl-81 calculator.
- The resource does not cover the line of best fit in any form.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

Copyright:

1993

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| 1             |             | 1                             | 1                  | 1         | 1          | 1             |

#### Strand/Substrand(s):

| Nu                 | ımber                | Pa       | itterns and Re          | elations                   | Shape and Space |                               |                 | Statistics and Probability |                           |  |
|--------------------|----------------------|----------|-------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and<br>Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    |                      |          | -                       | · 1                        |                 | -                             |                 |                            |                           |  |

ISBN:

0969698100

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Distributor: Addison-Wesley Longman Ltd.

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Phone: (416) 447-5101

(800) 465-0536; (416) 443-0948 Fax: Internet:

http://www2.awl.com/corp/

Est. WCP Price(s):

\$12.30

What If ...?: The Straight Line: Investigations with the TI-81 Graphics Calculator

> Supplier: LRDC

Phone: (403) 427-5775 Fax: (403) 422-9750







What If ...?: The Straight Line: Investigations with the TI-82 **Graphics Calculator** 

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

80 pages, softcover

Author(s):

Alexander, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
|         |    | 1  |    | 1  |    |    |            |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    | 1  |            |    |    |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    | -  |    |    |    |            |    |    |

#### Annotation:

This resource explores the straight line, using the TI-82 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes. This resource also introduces the concept of line of best fit.

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

- This "how to" resource is dependent upon the TI-82 calculator.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  |    |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |   | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|---|-----------|------------|---------------|
|               |             | 1                             | 1 |           | 1          |               |

#### Strand/Substrand(s):

| Nu                 | Number               |          | Patterns and Relations     |                            |             | Shape and Space               |                 |                  | d Probability          |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and Uncertainty |
|                    |                      |          |                            | 1                          |             |                               |                 | 1                |                        |

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Distributor: Addison-Wesley Longman Ltd.

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Internet:

(800) 465-0536; (416) 443-0948

http://www2.awl.com/corp/

Copyright: ISBN: 1994

0969698135

Title:

What If ...?: The Straight Line: Investigations with the TI-82 Graphics Calculator

Est. WCP Price(s):

\$12.30

Supplier: LRDC

**Phone:** (403) 427-5775 Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca





Programming and Programs for the TI-82 Graphics Calculator

#### **Authorization Status:**

Authorized Teaching

#### WCP Category:

Teacher

#### Physical Characteristics:

64 pages, softcover

### Author(s):

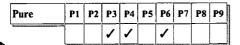
Kelly, B.



Cluster(s):

| Applied | <b>A1</b> | A2 | А3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|-----------|----|----|----|----|----|----|----|----|
|         |           | 1  |    |    |    |    | 1  | 1  |    |

| Common                                  | C1 | C2 | С3 | C4 | C5 | C6 |
|---|----|----|----|----|----|----|
| *************************************** |    |    | /  | 1  | 1  |    |



#### Annotation:

This teacher resource provides the keystrokes for programming TI-82 calculators and provides explanations and example programs. This resource would be useful for TI-82 users who are interested in programming

#### Comments:

- Teachers may wish to compare the programming of the graphing calculator with the programming of spreadsheets for the problem-solving activities.
- · Teachers should determine under what conditions programs, once written, can be used by students. Some jurisdictions allow students to use graphing calculator programs written by others, while some do not.

#### Cautions:

- This resource is specific to programming TI-82 calculators only. Modifications of the sequences for programming other Texas Instruments calculators are possible, but modifications for programming calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

| -                   | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Commu | unication | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|-------|-----------|-------------------------------|--------------------|-----------|------------|---------------|
|       |           |                               | 1                  |           |            |               |

Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                            |             | Shape and Spa                 | ce              | Statistics and Probability |                           |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |
|                    |                               | 1        | 1                          | <b>✓</b>                   |             |                               |                 |                            |                           |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

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Phone:

(416) 447-5101

Fax: Internet:

(800) 465-0536; (416) 443-0948 http://www2.aw1.com/corp/

ISBN: Copyright: 1895997011

Programming and Programs for the TI-82

Est. WCP Price(s):

\$14.60

Graphics Calculator

Supplier: LRDC

Phone: (403) 427-5775

(403) 422-9750 Fax: Internet: http://www.lrdc.edc.gov.ab.ca





Box Cars & One-Eved Jacks: Math Games for Kids

Radical Math: Math Games Using Cards and Dice (Volume VII) (Grades 7 – 12)

#### **Authorization Status:**

Authorized Teaching

#### WCP Category:

Teacher

#### Physical Characteristics:

208 pages, softcover, and 10 special dice



Currah, J.; Felling, J.; Lachance, N.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         |    |    |    |    |    |    |    |    |    |
|         | Ļ  |    |    |    |    |    |    |    |    |

| Common | C1 | C2 | С3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        | 1  | 1  |    |    |    |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      | /  | 1  |    |    |    |    |    |    |    |

#### Annotation:

This resource offers some unique activities that target the Patterns and Relations strand. The majority of the activities are at the Grade 10 level. The resource encourages the processes of communication, estimation and mental mathematics, problem solving, reasoning, and visualization.

#### Comments:

- · Many of the activities can be used to help students achieve fluency in such topics as polynomial manipulations and the use of equivalent forms of expressions containing radicals.
- There is a good curriculum fit to Pure Mathematics 10; the curriculum fit to Applied Mathematics 10 is not as good.

#### Cautions:

- Some sections of the resource are more suitable for prerequisite studies in Grade 7 to Grade 9.
- Some of the activities, especially those on the trigonometry of right triangles, are mislabelled for grade
- There are few real-life applications in the resource.

Audience: General

Course(s):

1996

|                     | 10       | 20 | 30 |
|---------------------|----------|----|----|
| Applied Mathematics | <b>✓</b> |    |    |
| Pure Mathematics    | 1        |    |    |

Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| /             |             | 1                             | 1                  | /         |            | /             |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                         |             | Shape and Spa                 | ce              | Statistics and Probability |                           |
|--------------------|-------------------------------|----------|----------------------------|-------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |
|                    |                               | /        | 1                          | 1                       |             | 1                             |                 | _                          | -                         |

Publisher: Box Cars & One-Eyed Jacks

Distributor: Box Cars & One-Eyed Jacks

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EDMONTON AB T6B 2W4

Phone:

(403) 440-6284

Fax:

(403) 440-1619

Copyright: ISBN: 0968161308

Radical Math: Math Games Using Cards and Dice (Volume VII) (Grades 7 - 12)

Est. WCP Price(s):

\$36.00

Supplier: LRDC Phone: (403) 427-5775

(403) 422-9750 Fax:





Addison-Wesley Mathematics 11 (Western Canadian Edition)
• Student Text

#### **Authorization Status:**

Basic

WCP Category:

Breadth

Physical Characteristics:

601 pages, hardcover

Author(s):

Alexander, R. et al.



#### Annotation:

The student resource closely maps the content of the Common Curriculum Framework. The framework's mathematical processes are embedded throughout the resource. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the resource.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, when appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated througout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are often highlighted through the use of icons in examples, explanations and activities.

#### • Student Text

The text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource.

#### Comments:

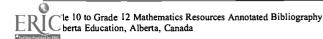
- The student resource attempts to incorporate the mathematical processes and the philosophy of the Common Curriculum Framework through the use of appropriate section headings and icons.
- The treatment of nonlinear functions and equations relies heavily on the use of the graphing calculator. Function graphs and numerical equation solutions are treated in advance of the closed-form solutions of the quadratic equation. This contrasts to many resources, which treat the quadratic equation first, with greater emphasis on closed-form solutions.
- Exercises are split into A, B and C levels. Students who only do the A exercises will not have enough exposure to the mathematical processes.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively.
   These are not supplied with the resource.

#### Cautions

- References are made in the resource to specific Internet web sites, including one mathematics site being maintained by Addison-Wesley Longman. These web sites, including Addison-Wesley Longman's own site, are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations, especially tolerance and understanding.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.
- The student resource contains no reference to the ambiguous case for the solving of oblique triangles. The reference to the ambiguous case is found instead as one exercise in the Addison-Wesley Mathematics 10 student text.

Audience: General

Continued





| Applied | 1  | A2 | A3 | A4 | A5 | A6 | Α7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         |    |    |    |    |    |    |    |    |    |
| Common  | CI | C2 | C3 | C4 | C5 | C6 |    |    |    |
|         | -  |    |    | 1  | 1  |    |    |    |    |

| Course(s):          |    |    |    |
|---------------------|----|----|----|
|                     | 10 | 20 | 30 |
| Applied Mathematics |    |    |    |
| Pure Mathematics    | _  | 1  |    |

Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| 1             | 1           | 1                             | 1                  | 1         | 1          | ✓             |

Student Text

Strand/Substrand(s):

| Number Patterns    |                      |          | atterns and Re             | lations Shape and Space    |             |                               | Statistics and Probability |                  |                           |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
| N/A                | 1                    | 1        | 1                          | ✓                          |             | 1                             | N/A                        | N/A              | N/A                       |

1998

Publisher: Addison-Wesley

Distributor: Addison-Wesley Longman Ltd.

26 Prince Andrew Place

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(800) 465-0536; (416) 443-0948 Internet: http://www2.awl.com/corp/

Est. WCP Price(s): Copyright: ISBN: Title: 0201346249

\$51.95

Supplier: LRDC Phone: (403) 427-5775 Fax: (403) 422-9750





Active Learning

Alge-Tiles: Grades 7-11 (Ages

12-16+)

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

90 pages, binder



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
| 1       |    |    |    |    |    |    |    |    |    |

| Common | Cı | C2 | С3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
| 1      |    |    |    |    | 1  |    |

| Pure | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      | 1  |    | 1  | 1  |    |    |    |    |    |

#### Annotation:

This resource provides hands-on experience by using algebra tiles to help students develop an understanding of ratios, integers, polynomials, and factoring and solving equations. It provides ideas for teachers on how to help students use algebra tiles and the accompanying activity sheets. Each topic includes teacher notes, student blackline master activity sheets and answers for all activities.

- · Algebra tiles are not included.
- This resource is primarily for Pure Mathematics 10 but can also be used in Applied Mathematics 20 and Pure Mathematics 20.
- The number concepts and number operations outcomes addressed in this resource are in the Grade 7 to Grade 9 curriculum, not the Grade 10 curriculum.

#### Cautions:

• Some sections of the binder are more suitable for prerequisite studies in Grade 7 to Grade 9.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

Mathematical Process(es):

| Communication | ł | Estimation and Mental Math |   | Reasoning | Technology | Visualization |
|---------------|---|----------------------------|---|-----------|------------|---------------|
|               |   |                            | / | /         |            | ✓             |

#### Strand/Substrand(s):

| , 500 m            | 55 tt mis tt (5) t   |          |                         |                            |             |                               |                            |                  |                           |
|--------------------|----------------------|----------|-------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Nu                 | Number Pattern       |          |                         | lations                    |             | Shape and Spa                 | Statistics and Probability |                  |                           |
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      | 1        | 1                       |                            |             |                               |                            |                  |                           |

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Distributor: Exclusive Educational Products

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Phone: Fax:

(705) 725-1166 (705) 725-1167

Copyright: 1991

Title:

Alge-Tiles: Grades 7-11 (Ages 12-16+)

Est. WCP Price(s):

\$34.95

LRDC Supplier:

Phone: (403) 427-5775

(403) 422-9750





**Explore Quadratic Functions with** the TI-83 or TI-82

#### Annotation:

This manual can be used as either a student or a teacher resource for applying graphing calculator technology to the exploration of quadratic functions and equations. It contains concise and precise instructions on relevant keying sequences. There are many "window" diagrams showing input and output screens. Problems posed relate to real-world situations and provide ample opportunities for discussion, exploration and extension of a variety of situations beyond the routine.

#### **Authorization Status:**

Support

**WCP Category:** 

Depth

**Physical Characteristics:** 

120 pages, softcover

Author(s):

Alexander, B.



Cluster(s):

| Applied            | A1        | A2 | A3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|--------------------|-----------|----|----|----|----|----|------------|----|----|
| harris is the same | 100000000 |    |    |    |    |    |            |    |    |

| Common | C1 | C2 | C3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
| T      |    |    |    |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    | 1  | 1  |    |    |            |    |    |

#### Cautions:

- The resource uses keying sequences that are specific to the TI-83 and TI-82 models of calculator.
- · Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

Course(s):

1997

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    | 1  |    |
| Pure Mathematics    |    | 1  |    |

#### Mathematical Process(es):

| Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| 1             | / | 1                             | 1                  | /         | 1          | 1             |

### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | itterns and Re          | elations                   |             | Shape and Spa                 | ce              | Statistics at    | nd Probability            |
|--------------------|----------------------|----------|-------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | •                    |          | 1                       | . 🗸                        |             | •                             |                 | -                |                           |

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Internet: http://www2.awl.com/corp/ Copyright: ISBN: 0969698143

Title:

Explore Quadratic Functions with the TI-83 or

Est. WCP Price(s): \$17.95

TI-82

Supplier: LRDC Phone: (403) 427-5775

(403) 422-9750





Exploring Functions with the TI-82 **Graphics Calculator** 

#### Annotation:

This resource contains exercises and investigations that are suitable for a wide range of student abilities. It acts as a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

• The resource uses keying sequences that are specific to the TI-82 model of calculators.

· Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.

• Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### **Authorization Status:**

Support

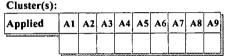
#### WCP Category:

Depth

### Physical Characteristics:

64 pages, softcover

Author(s): Kelly, B.



| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | <b>C</b> 6 |
|--------|----|----|------------|----|----|------------|
|        |    | 1  |            |    | 1  |            |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    |    |    | 1  |            | 1  |    |

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

|   | Communication |   | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
| - | ✓             | 1 | 1                             | ✓                  | 1         | /          | ✓             |

### Strand/Substrand(s):

| Briana, Bar        |                      |          |                         |                         |             |                               |                            |                  |                           |
|--------------------|----------------------|----------|-------------------------|-------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Nu                 | mber                 | Pa       | tterns and Re           | lations                 |             | Shape and Spa                 | Statistics and Probability |                  |                           |
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      |          | 1                       | <b>✓</b>                |             |                               |                            |                  |                           |

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berta Education, Alberta, Canada

Copyright: ISBN: Title:

1993 1895997003

Exploring Functions with the TI-82 Graphics

Calculator

Supplier:

Est. WCP Price(s):

\$14.60

Phone: (403) 427-5775

(403) 422-9750 Fax:





#### Geometer's Sketchpad

- · The Geometer's Sketchnad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

#### **Authorization Status:**

Support

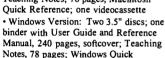
#### WCP Category:

Depth

#### **Physical Characteristics:**

Reference; one videocassette

· Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Ouick Reference; one videocassette





Cluster(s):

| Applied  | A1       | A2 | А3         | <b>A</b> 4 | A5 | A6 | A7 | A8 | <b>A</b> 9 |
|--|----------|----|------------|------------|----|----|----|----|------------|
|  | <b>/</b> |    | 1          |            |    |    |    |    |            |
| Common   | C1       | C2 | <b>C</b> 3 | <b>C</b> 4 | C5 | C6 |    |    |            |
| (amount of the last of the las | 1        |    |            |            | 1  |    |    |    |            |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    |    | 1  |    |    |    |    |

#### Annotation:

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 20, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 20. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

- This resource can have greater applications as the user becomes more familiar with the program.
- . The videocassette supports both Macintosh and Windows.

#### **System Requirements:**

- · Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6.0 or higher. Recommended is a system with 4 MB RAM and System 7.0 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive.
- Windows 95: 486/50 MHz, 8MB RAM, hard drive. The use of a Pentium processor and 16 MB RAM is recommended.

#### Cautions:

• The program defaults to inches, but it can be set to centimetres.

Audience: General

### Course(s):

| ,                   | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               | 1                  | 1         | 1          | 1             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | lations                    |             |   | Shape and Spa                 | ce              | Statistics ar    | d Probability          |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|---|-------------------------------|-----------------|------------------|------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement |   | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and Uncertainty |
|                    |                      |          |                            |                            |             | 1 | <b>\</b>                      | <b>✓</b>        |                  | •                      |

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**Component Titles:** 

Est. WCP Price(s):

· The Geometer's Sketchpad (Macintosh

\$274.95

3.03)

· The Geometer's Sketchpad (Windows Version

\$274.95

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca





Geometry Blaster (Windows / Macintosh CD-ROM Version)

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

One CD-ROM



Cluster(s):

| Applied | A1 | A2 | <b>A3</b> | A4 | A5 | <b>A</b> 6 | A7 | A8 | A9 |
|---------|----|----|-----------|----|----|------------|----|----|----|
| 1       |    |    |           |    |    |            | ·  |    |    |

| Common | C1 | C2 | <b>C3</b> | C4 | C5       | <b>C</b> 6 |
|--------|----|----|-----------|----|----------|------------|
| 1      | 1  |    | 1         |    | <b>\</b> |            |

| Pure | P1 | P2 | Р3 | P4 | P5 | <b>P</b> 6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|------------|------------|----|----|
|      |    |    | 1  |    | 1  |            |            |    |    |

#### Annotation:

This CD-ROM package includes lessons, activities and games to teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate or a mastery level. In each of the individual lessons there are three sections: teach, practise and apply. The resource is primarily designed for individual student use — drill, practice, recreation and enrichment. The ten main topics explored are: points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3-D, coordinate geometry, transformational geometry, and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

#### Comments:

- The resource is most useful for Grade 10.
- The resource has multiple levels, a good glossary and tutorial lessons to support the games.

#### System Requirements:

- Macintosh: System 7.0 or higher, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, 256 super VGA or better colour monitor, sound and graphics cards, CD drive and a mouse are required. A Pentium processor and a printer are recommended.

#### Cautions:

- There is minimal emphasis on real-life problem solving.
- The teacher has limited records with which to check student progress.

Audience: General

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

Mathematical Process(es):

| Communication | 1 | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|---|-------------------------------|--------------------|-----------|------------|---------------|
|               | 1 | 1                             | 1                  | ✓         | 1          | ✓             |

Strand/Substrand(s):

|             | Num | ber                  | Pa       | Patterns and Relations     |                         |             | Shape and Spa                 | ce              | Statistics and Probabil |                           |  |
|-------------|-----|----------------------|----------|----------------------------|-------------------------|-------------|-------------------------------|-----------------|-------------------------|---------------------------|--|
| Num<br>Conc |     | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis        | Chance and<br>Uncertainty |  |
|             |     | •                    | 1        | •                          |                         | 1           | 1                             | ✓               |                         |                           |  |

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Distributor: Davidson & Associates, Inc.

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(310) 793-0600, ext. 1291

Fax: Internet: (310) 793-0601

http://www.education.com/

Copyright: ISBN: 0784910634 Title:

Geometry Blaster (Windows / Macintosh CD-ROM Version)

\$79.95

Est. WCP Price(s):

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca





#### Secondary Math

- · Secondary Math Lab Toolkit (Macintosh Version)
- · Secondary Math Lab Toolkit (Windows Version)

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### Physical Characteristics:

- · Macintosh Version: Three 3.5" discs and User's Guide, 128 pages, softcover
- · Windows Version: Five 3.5" discs and User's Guide, 128 pages, softcover



#### Author(s):

Bedoya, J.Z. et al.

#### Cluster(s):

| Applied | Ai | A2 | <b>A3</b> | <b>A</b> 4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|-----------|------------|----|----|------------|----|----|
|         |    |    |           |            |    | 1  |            | 1  | 1  |

| Common | Ci | C2 | C3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    |    |    |    |    |    |
|        |    | ļ  |    |    |    |    |
|        |    |    |    |    |    |    |

| Pure | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    | 1  |    | 1  | 1  | 1  | 1  | 1  | 1  |

#### Annotation:

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

#### Comments:

- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming functions from symbolic editor to graphs and vice versa.

#### **System Requirements:**

- Macintosh: minimum of a Macintosh LC II, with 6 MB RAM and System 7.0 or higher. Recommended is a PowerMac system with 8 MB RAM and System 7.5 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 486/33 MHz, 12 MB RAM, hard drive.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive. The use of a Pentium processor with 16 MB RAM is recommended.

#### Cautions:

- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representations are very limited and are harder to use and less flexible than the concrete
- The tutorial materials may be insufficient for users of the toolkit.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    |    | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           |            | ✓             |

### Strand/Substrand(s):

| Nu                 | ımher                | Patterns and R |                            | elations                   | Shape and Space |                               |                 | Statistics and Prohabil |                           |
|--------------------|----------------------|----------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|-------------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns       | Variables and<br>Equations | Relations and<br>Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis        | Chance and<br>Uncertainty |
|                    | 1                    | 1              | 1                          | ✓                          |                 | 1                             | 1               | 1                       | 1                         |

0134330447

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Fax: Internet:

(416) 297-2601 http://www.prenhall.com/ Copyright: ISBN:

1998

1998 0134330439 **Component Titles:** 

• Secondary Math Lab Toolkit (Macintosh

Version)

· Secondary Math Lab Toolkit (Windows Version)

Est. WCP Price(s):

\$137.95 (Single User

\$499.95 (Site License) \$137.95 (Single User

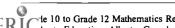
Version) \$499.95 (Site License)

(403) 422-9750

Supplier: LRDC **Phone:** (403) 427-5775

Internet: http://www.lrdc.edc.gov.ab.ca

Fax:







Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Functions

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### **Physical Characteristics:**

32 pages, softcover

Author(s): Kelly, B.



#### Cluster(s):

| Applied | <b>A1</b> | A2 | A3 | A4 | A5 | <b>A</b> 6 | A7 | A8 | A9 |
|---------|-----------|----|----|----|----|------------|----|----|----|
|         |           |    |    |    |    |            |    |    |    |

| Common | C1 | C2 | С3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
|        |    | ✓  |    |    | ✓  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    | 1  |    | 1  |    | 1  |    |

#### Annotation:

This resource manual includes exercises and investigations suitable for a wide range of student abilities. It provides a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The resource uses keying sequences that are specific to the TI-81 graphics calculator.
- Modifications of the sequences for other Texas Instruments graphics calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | 1             |

Strand/Substraud(s):

| Nu                 | Number Patterns and Relations |          |                            |                            |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
| •                  |                               |          |                            |                            |             |                               |                            |                  |                           |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

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Phone:

(416) 447-5101

Fax: Internet: (800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

Copyright: ISBN:

1991

0969524404

Title:

Functions

Using the TI-81 Graphics Calculator to Explore

\$8.95

Supplier: LRDC Phone: (403) 427-5775

Est. WCP Price(s):

Fax: (403) 422-9750 Internet: http://www.lrdc.edc.gov.ab.ca





What If ...?: The Straight Line: Investigations with the TI-81 **Graphics Calculator** 

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

48 pages, softcover

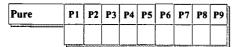
Author(s):





| Applied | A1         | A2 | А3 | A4 | <b>A</b> 5    | A6 | A7 | A8 | A9 |
|---------|------------|----|----|----|---------------|----|----|----|----|
| 1       |            |    |    |    | $\overline{}$ |    |    |    |    |
|         |            | li |    |    |               |    |    |    |    |
|         | 1000000000 |    | L  |    |               |    |    |    |    |

| Common | Cı | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    | 1  |            |    | 1  |    |



#### Annotation:

This resource explores the straight line, using the TI-81 graphics calculator. It shows students how to plot linear equations, how to make changes to the variable, and uses the question: "what if ...?" to pose multiple problems within a single context. Students are encouraged to compare their answers and to predict outcomes.

#### Comments:

• The resource encourages students to use a prerecorded program to graph linear functions of the form Ax + By + C = 0, rather than use pencil and paper methods to rewrite the function in the form y = mx + b.

- The T1-81 calculator is no longer sold in stores, but students may already have access to one.
- This "how to" resource is dependent upon the TI-81 calculator.
- The resource does not cover the line of best fit in any form.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  |    |

#### Mathematical Process(es):

|   | Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ĺ | 1             |             | 1                             | ✓                  | ✓         | 1          | 1             |

#### Strand/Substrand(s):

| Nu                 | mber                 | Pa       | tterns and Re              | lations                    |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|----------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |                      |          |                            | 1                          |             | •                             |                            |                  | •                         |

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Internet: http://www2.awl.com/corp/ Copyright: ISBN: Title: 0969698100

What If ...?: The Straight Line: Investigations with the TI-81 Graphics Calculator

Est. WCP Price(s):

\$12.30

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca

Supplier:





Programming and Programs for the **TI-82 Graphics Calculator** 

#### **Authorization Status:**

Authorized Teaching

#### WCP Category:

Teacher

#### Physical Characteristics:

64 pages, softcover

### Author(s):

Kelly, B.



#### Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         |    | 1  |    |    |    |    | 1  | 1  |    |

| Common | C1 | C2 | C3 | C4 | C5 | C6 |
|--------|----|----|----|----|----|----|
| t      |    |    | 1  | 1  | /  |    |

| Pure     | P1 | P2 | P3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|----------|----|----|----|----|----|----|------------|----|----|
| <u> </u> |    |    | 1  | 1  |    | 1  |            |    |    |

#### Annotation:

This teacher resource provides the keystrokes for programming T1-82 calculators and provides explanations and example programs. This resource would be useful for TI-82 users who are interested in programming

#### Comments:

- · Teachers may wish to compare the programming of the graphing calculator with the programming of spreadsheets for the problem-solving activities.
- Teachers should determine under what conditions programs, once written, can be used by students. Some jurisdictions allow students to use graphing calculator programs written by others, while some do not.

#### Cautions:

- This resource is specific to programming T1-82 calculators only. Modifications of the sequences for programming other Texas Instruments calculators are possible, but modifications for programming calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

| 002100(0)1          |    |    |    |
|---------------------|----|----|----|
|                     | 10 | 20 | 30 |
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Estimation and<br>Mental Math | I | Reasoning | Technology | Visualization |
|---------------|-------------------------------|---|-----------|------------|---------------|
|               |                               | 1 |           | 1          |               |

#### Strand/Substrand(s):

| 211111111111111111111111111111111111111 |                      | _        |                         | _                       |             |                               |                            | _                |                           |
|---|----------------------|----------|-------------------------|-------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number                                  |                      | Pa       | Patterns and Relations  |                         |             | Shape and Spa                 | Statistics and Probability |                  |                           |
| Number<br>Concepts                      | Number<br>Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|   |                      | 1        | 1                       | 1                       |             |                               |                            |                  |                           |

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Fax:

(800) 465-0536; (416) 443-0948

Internet:

http://www2.awl.com/corp/

Copyright: 1994

ISBN:

Title:

Programming and Programs for the T1-82

Graphics Calculator

Est. WCP Price(s):

\$14.60

Supplier: LRDC **Phone:** (403) 427-5775

Fax: (403) 422-9750





Exploring Functions with the TI-82 **Graphics Calculator** 

#### Annotation:

This resource contains exercises and investigations that are suitable for a wide range of student abilities. It acts as a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The resource uses keying sequences that are specific to the TI-82 model of calculators.
- Modifications of the sequences for other Texas Instruments calculators are possible, but modifications for calculators made by other manufacturers are problematic.

  • Teachers should consult any list of approved calculators or other calculator policy that applies to their
- jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### **Authorization Status:**

Support

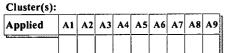
#### **WCP Category:**

Depth

#### Physical Characteristics:

64 pages, softcover

Author(s): Kelly, B.



| Common                | Cı | C2 | C3 | C4 | C5 | C6 |
|-----------------------|----|----|----|----|----|----|
| Land Company Decision |    | 1  |    |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | Р8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    |    |    | 1  |            | 1  |    |

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| 1             | 1           | 1                             | 1                  | 1         | 1          | 1             |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                            |             | Shape and Spa                 | ce              | Statistics ar    | nd Probability            |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
| •                  | -                             |          | . 1                        | 1                          |             |                               |                 |                  |                           |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

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ISBN: Copyright: 1895997003

Exploring Functions with the TI-82 Graphics

Est. WCP Price(s): \$14.60

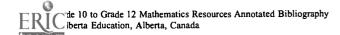
Calculator

Supplier:

LRDC

Phone: (403) 427-5775 (403) 422-9750

Fax:







Exploring Statistics with the TI-82 **Graphics Calculator** 

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

64 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | Al | A2 | А3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | <b>A</b> 9 |
|---------|----|----|----|----|----|----|------------|----|------------|
|         |    | 1  |    | 1  |    |    |            |    |            |

| Common | Cı | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    | /          |    |    | 1  |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    | 1  |    |    |    |    | 1          |    |    |

#### Annotation:

This resource manual uses the TI-82 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

#### Comments:

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line. The median-median line is used in several examples, but there is no attempt to explain how this line differs from the regression line of y on x, nor to explain the advantages of using the median-median line. Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- · Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

1994

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| : | Communication |   | Estimation and Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---|---------------|---|----------------------------|--------------------|-----------|------------|---------------|
|   | ✓             | 1 | /                          | /                  | 1         | 1          | 1             |

### Strand/Substrand(s):

| Nu                 |  |          |  | lations                    |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|--|----------|--|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts |  | Patterns |  | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    |  |          |  |                            |             |                               |                            | 1                | 1                         |

Publisher: Brendan Kelly Publishing Inc.

Distributor: Addison-Wesley Longman Ltd.

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Phone: (416) 447-5101

Fax:

(800) 465-0536; (416) 443-0948 http://www2.awl.com/corp/

Internet:

Copyright: ISBN: 189599702X

Title:

Calculator

Exploring Statistics with the TI-82 Graphics

Est. WCP Price(s):

Supplier: LRDC Phone: (403) 427-5775

Fax: (403) 422-9750







RADE (Radian Protractor and Teacher's Guide)

#### **Authorization Status:**

Support

#### **WCP Category:**

Depth

#### **Physical Characteristics:**

One Radian Protractor and Teacher's Guide, 20 pages, loose, all in a softcover folder



Author(s):

Gagnon-Messier, D.; Forget, R.

#### Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | <b>A6</b> | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|-----------|------------|----|----|
|         |    |    |    |    |    |           |            |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
| 1      |    |    | 1          |    |    |    |

| Pure  | P1 | P2 | P3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|---|----|----|----|----|----|----|------------|----|----|
| private de la constante de la |    |    |    |    |    |    |            | 1  |    |

#### Annotation:

The RADE is a circular protractor with scales in radians and decimals of a radian, p radians and fractions of p radians, as well as degrees. The accompanying teacher's guide explains the use of the protractor and provides overheads and question/answer worksheets for student use to reinforce concepts.

#### Comments:

- This resource is available in English and in French.
- The use of this resource is primarily limited to Pure Mathematics 30, outcomes P8-1 and P8-2, with a limited applicability to cluster C3 in Pure Mathematics 10 and Applied Mathematics 10.

#### Cautions:

- This resource is often marketed as part of a kit that contains other elements. The other components of the kit were either not approved as WCP resources for Grade 10 to Grade 12, or considered as more appropriate for Grade 7 to Grade 9.
- The approved resource consists only of the student protractor and the accompanying print guide.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  |    |    |
| Pure Mathematics    | 1  |    | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| <b>✓</b>      |             | <b>✓</b>                      |                    | 1         |            | 1             |

#### Strand/Substrand(s):

| Nu                 |   |         |     | lations                    |             | Shape and Spa                 | Statistics and Probability |                  |                           |
|--------------------|---|---------|-----|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts |   | Pattems | 1 1 | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
| •                  | • |         |     | ✓.                         | 1           | /                             | ,                          |                  |                           |

Publisher: Société RADE Enr.

Distributor: Curriculum Innovations Box 48, Site 3, RR4

STONY PLAIN AB T7Z 1X4

Phone: Fax:

(403) 963-5992 (403) 963-5981

Est. WCP Price(s):

RADE (Radian Protractor and Teacher's Guide)

Supplier: LRDC Phone: (403) 427-5775

(403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca

 $\mathcal{G}(\mathcal{X})$ 





#### Secondary Math

- Secondary Math Lab Toolkit (Macintosh Version)
- · Secondary Math Lab Toolkit (Windows Version)

#### **Authorization Status:**

Support

#### WCP Category:

Depth

#### Physical Characteristics:

- · Macintosh Version: Three 3.5" discs and User's Guide, 128 pages, softcover
- · Windows Version: Five 3.5" discs and User's Guide, 128 pages, softcover



#### Author(s):

Bedova, J.Z. et al.

#### Cluster(s):

| Applied | A1 | A2 | A3 | <b>A</b> 4 | <b>A</b> 5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|------------|------------|----|------------|----|----|
|         | Ĺ  |    |    |            |            | 1  |            | 1  | 1  |

| Common   | CI | C2 | <b>C</b> 3 | C4 | C5 | С6 |
|--|----|----|------------|----|----|----|
| S. Manager and S. Marian and S |    |    |            |    |    |    |

| Pure | P1 | P2 | P3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | <b>P</b> 9 |
|------|----|----|----|----|----|----|------------|----|------------|
|      |    | 1  |    | 1  | 1  | 1  | 1          | 1  | 1          |

#### Annotation:

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

#### Comments:

- · Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming functions from symbolic editor to graphs and vice versa.

- . Macintosh: minimum of a Macintosh LC II, with 6 MB RAM and System 7.0 or higher. Recommended is a PowerMac system with 8 MB RAM and System 7.5 or higher.
- Windows 3.1: Windows 3.1 in enhanced mode, 486/33 MHz, 12 MB RAM, hard drive.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive. The use of a Pentium processor with 16 MB RAM is recommended.

#### Cautions:

- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representations are very limited and are harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    |    | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | 1             |

### Strand/Substrand(s):

| Nu                 |   |          |   | elations                   |             | Shape and Spa                 | ce              | Statistics and Probability |                           |  |
|--------------------|---|----------|---|----------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts |   | Patterns |   | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    | 1 | J'       | 1 | 1                          |             | 1                             | ٧.              | 1                          | 1                         |  |

Publisher: Prentice Hall, Inc.

Distributor: Prentice Hall Ginn Publishing Co.

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Phone: Fax:

(416) 293-3621 (416) 297-2601

Internet:

http://www.prenhall.com/

Copyright: ISBN:

1998

1998 0134330439

**Component Titles:** 

· Secondary Math Lab Toolkit (Macintosh

0134330447 · Secondary Math Lab Toolkit (Windows

Version)

Est. WCP Price(s):

\$137.95 (Single User Version)

\$499.95 (Site License) \$137.95 (Single User

Version) \$499.95 (Site License)

Supplier: LRDC

Phone: (403) 427-5775 Fax: (403) 422-9750

Internet: http://www.lrdc.edc.gov.ab.ca





String Invision Conics Model (includes Teacher's Guide)

#### Annotation:

This model transfers a beam of light from the overhead projector to the visual representation of a double-napped cone, creating a conic. It is particularly effective in demonstrating the cases involving degenerate conics.

#### Comments:

• The model is intended as a teacher demonstration tool, more than as a student exploration tool.

Audience: General

### **Authorization Statns:**

Support

#### WCP Category:

Depth

### Physical Characteristics:

One wood/metal/string model; Teacher's Guide, 13 pages, coilbound; overhead materials



Author(s): Hillacre, D.

Cluster(s):

| Applied | A1 | A2 | A3 | A4 | A5 | A6 | <b>A</b> 7 | A8 | A9 |
|---------|----|----|----|----|----|----|------------|----|----|
| 1.4.    |    |    |    |    |    |    |            |    |    |

| Common      | Ç1 | C2 | C3 | C4 | C5 | C6 |
|-------------|----|----|----|----|----|----|
| <del></del> |    |    |    |    |    |    |

| Pure     | Pi | P2 | Р3 | P4 | P5 | P6 | P7 | P8 | P9 |
|----------|----|----|----|----|----|----|----|----|----|
| <u> </u> |    |    |    |    |    |    |    |    | 1  |

Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics |    |    | _  |
| Pure Mathematics    |    |    | 1  |

#### Mathematical Process(es):

|               |             | Estimation and |         |           |            |               |
|---------------|-------------|----------------|---------|-----------|------------|---------------|
| Communication | Connections | Mental Math    | Solving | Reasoning | Technology | Visualization |
| 1             |             |                |         | <b>\</b>  |            | 1             |

Strand/Substrand(s):

| Nu                 |  |         |   | elations |             | Shape and Spa                 | ce              | Statistics and Probability |                           |  |
|--------------------|--|---------|---|----------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts |  | Pattems |   |          | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    |  |         | • |          |             |                               | 1               |                            |                           |  |

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String Invision Conics Model (includes Teacher's Guide)

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750





Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Functions

#### **Authorization Status:**

Support

WCP Category:

Depth

#### Physical Characteristics:

32 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| <br>A1 | A2 | <b>A3</b> | <b>A</b> 4 | <b>A</b> 5 | <b>A</b> 6 | <b>A</b> 7 | A8 | A9 |
|--------|----|-----------|------------|------------|------------|------------|----|----|
|        |    |           |            |            |            |            |    |    |

| Common                      | C1 | C2 | <b>C3</b> | C4 | C5 | C6 |
|-----------------------------|----|----|-----------|----|----|----|
| tulium carrier and a second |    | 1  |           |    | 1  |    |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P</b> 7 | P8 | P9 |
|------|----|----|----|----|----|----|------------|----|----|
|      |    |    |    | 1  |    | 1  |            | 1  |    |

#### Annotation:

This resource manual includes exercises and investigations suitable for a wide range of student abilities. It provides a supplement to a limited number of specific outcomes from the Patterns and Relations strand and is designed for follow-up activities.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The resource uses keying sequences that are specific to the TI-81 graphics calculator.
- Modifications of the sequences for other Texas Instruments graphics calculators are possible, but modifications for calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  |    |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |             |                               |                    |           | 1          | 1             |

#### Strand/Substrand(s):

| Nu                 | Number Patterns and Relations |          |                            |                            |             | Shape and Spa                 | ce              | Statistics and Probability |                           |  |
|--------------------|-------------------------------|----------|----------------------------|----------------------------|-------------|-------------------------------|-----------------|----------------------------|---------------------------|--|
| Number<br>Concepts | Number<br>Operations          | Patterns | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis           | Chance and<br>Uncertainty |  |
|                    |                               |          |                            | . 1                        |             |                               |                 |                            | _                         |  |

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Supplier:





Using the TI-81 Graphics Calculator

Using the TI-81 Graphics Calculator to Explore Statistics

#### **Authorization Status:**

Support

WCP Category:

Depth

Physical Characteristics:

32 pages, softcover

Author(s):

Kelly, B.



Cluster(s):

| Applied | A1 | A2 | А3 | A4 | A5 | A6 | A7 | A8 | A9 |
|---------|----|----|----|----|----|----|----|----|----|
|         |    | 1  |    | 1  |    |    |    |    |    |

| Common | C1 | C2 | <b>C</b> 3 | C4 | C5 | C6 |
|--------|----|----|------------|----|----|----|
|        |    |    |            |    |    | 1  |

| Pure | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 |
|------|----|----|----|----|----|----|----|----|----|
|      |    |    |    |    |    |    | 1  |    |    |

#### Annotation:

This resource manual uses the TI-81 graphics calculator to explore and develop applications in statistics and probability, through the use of investigations and worked examples. These examples reflect current and real-world situations. The key inputs for data are linked to window illustrations displaying the desired results. However, most student exercises are not calculator specific. There are numerous references to historical influences on various developments in statistics and probability. Exercises allow ample scope for development and extension of the main mathematical processes.

#### Comments:

• This manual may be used at any level where statistics or probability components are taught.

#### Cautions:

- The TI-81 calculator is no longer sold in stores, but students may already have access to one.
- The line of best fit is defined as the line that has the least squares sum of the vertical residuals. Strictly speaking, this line is the regression line of y on x, rather than the least squares best-fit line.
- There is no reference to the median-median line.
- · Additional resources are needed to cover the line based on the least squares sum of the shortest distances.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    |    |    | 1  |

#### Mathematical Process(es):

| Communication | Estimation and<br>Mental Math | Problem<br>Solving | Reasoning | Technology | Visualization |
|---------------|-------------------------------|--------------------|-----------|------------|---------------|
|               |                               |                    |           | 1          | 1             |

Strand/Substrand(s):

| Nu                 | mber                 | Pa      | tterns and Re              | lations                    |             | Shape and Space               | Statistics and Probability |                  |                           |
|--------------------|----------------------|---------|----------------------------|----------------------------|-------------|-------------------------------|----------------------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Pattems | Variables and<br>Equations | Relations and<br>Functions | Measurement | 3-D Objects<br>and 2-D Shapes | Transformations            | Data<br>Analysis | Chance and<br>Uncertainty |
|                    | •                    |         | •                          |                            |             |                               | _                          | 1                | ✓                         |

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Title

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Using the TI-81 Graphics Calculator to Explore

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Programming and Programs for the TI-82 Graphics Calculator

#### **Authorization Status:**

Authorized Teaching

#### **WCP Category:**

Teacher

### Physical Characteristics:

64 pages, softcover

#### Author(s):

Kelly, B.



Cluster(s):

| <br><b>A1</b> | A2 | A3 | <b>A</b> 4 | A5 | A6 | A7 | A8 | A9 |
|---------------|----|----|------------|----|----|----|----|----|
|               | 1  |    |            |    |    | 1  | 1  |    |

| Common | C1 | C2 | С3 | <b>C</b> 4 | C5 | <b>C</b> 6 |
|--------|----|----|----|------------|----|------------|
|        |    |    | 1  | 1          | /  |            |

| Pure | P1 | P2 | Р3 | P4 | P5 | P6 | <b>P7</b> | Р8 | P9 |
|------|----|----|----|----|----|----|-----------|----|----|
|      |    |    | 1  | 1  |    | 1  |           |    |    |

#### Annotation:

This teacher resource provides the keystrokes for programming TI-82 calculators and provides explanations and example programs. This resource would be useful for Tl-82 users who are interested in programming

#### Comments:

- Teachers may wish to compare the programming of the graphing calculator with the programming of spreadsheets for the problem-solving activities.
- Teachers should determine under what conditions programs, once written, can be used by students. Some jurisdictions allow students to use graphing calculator programs written by others, while some do not.

#### Cautions:

- This resource is specific to programming TI-82 calculators only. Modifications of the sequences for programming other Texas Instruments calculators are possible, but modifications for programming calculators made by other manufacturers are problematic.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.

Audience: General

#### Course(s):

|                     | 10 | 20 | 30 |
|---------------------|----|----|----|
| Applied Mathematics | 1  | 1  | 1  |
| Pure Mathematics    | 1  | 1  | 1  |

#### Mathematical Process(es):

| Communication | Connections | Estimation and<br>Mental Math |   | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|---|-----------|------------|---------------|
|               |             |                               | 1 |           | 1          | -             |

#### Strand/Substrand(s):

| Numher             |                      | Patterns and Relations |                            |                         | Shape and Space |                               |                 | Statistics ar    | nd Prohahility            |
|--------------------|----------------------|------------------------|----------------------------|-------------------------|-----------------|-------------------------------|-----------------|------------------|---------------------------|
| Number<br>Concepts | Number<br>Operations | Patterns               | Variables and<br>Equations | Relations and Functions | Measurement     | 3-D Objects<br>and 2-D Shapes | Transformations | Data<br>Analysis | Chance and<br>Uncertainty |
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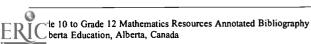
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| Trigonometric Functions I: Solving Triangles Trigonometric Ratios; Solving Right Triangles  | Support             | Videocassette | Mathematics 23        |

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| Electronic Classroom, The: Teacher Resource Manual   | Authorized Teaching | Print         | Mathematics 10 / 20 / 30<br>13 / 23 / 33 |
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| Holtmath 12 (Student Text)   | Basic               | Print         | Mathematics 30                           |
| Holtmath 12: Teacher's Resource Manual   | Authorized Teaching | Print         | Mathematics 30                           |
| Master Grapher and 3D Grapher (Version 1.0 Apple, IBM, Macintosh)  | Support             | Software      | Grades 10, 11, 12                        |
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| Mathematics 12 (National Ed.) (Student Text)   | Basic               | Print         | Mathematics 30                           |
| Mathematics for a Modern World: Book 4 (2nd Ed., Alberta Edition) (Student Text)   | Basic               | Print         | Mathematics 33                           |
| Mathematics: Principles and Process 12 (Student Text)  | Basic               | Print         | Mathematics 30                           |
| Mathematics: Principles and Process 12:<br>Teacher's Resource Package  | Authorized Teaching | Print         | Mathematics 30                           |
| Money Manager (Apple Version)  | Support             | Software      | Grades 10, 11, 12                        |
| Catch 30 Polynomial Functions; Exponential and Logarithmic Functions; Arithmetic Sequences and Series; Geometric Sequences and Series; Permutations and Combinations; Statistics | Basic               | Videocassette | Mathematics 30                           |
| Math Factor Math Factor (Programs 1 - 58)  |                     | Videocassette | Mathematics 30                           |



SERIES / TITLE

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**FORMAT** 

COURSE(S) OR GRADE(S)

### RESOURCES TO BE WITHDRAWN AUGUST 31, 2001 (Continued)

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